

**ANDHRA PRADESH SOLAR POWER CORPORATION PRIVATE LIMITED
(A J V COMPANY OF GOVT OF ANDHRA PRADESH AND GOVT OF INDIA)**

KADAPA ULTRA MEGA SOLAR PARK (1000 MW)

**BIDDING DOCUMENT
FOR THE WORK OF**

Name of work: **APSPCL – CSR - Construction of Community Hall, Bus Shelter and approach road at Thummalapalli Village of B.Kodur Mandal of Kadapa Dist. A.P.**

SINGLE PART BID
TENDER SPECIFICATION

NOTICE INVITING TENDERS (NIT) NO.
APSPCL-e-C- 10/2020-21/SE/Civil/APSPCL, Dt. 25.02.2021

**ANDHRA PRADESH SOLAR POWER CORPORATION PRIVATE LIMITED
KADAPA ULTRA MEGA SOLAR PARK (1000 MW)**

TENDER NOTICE

Tender Notice No. APSPCL-e-C- 10/2020-21/SE/Civil/APSPCL, Dt. 25.02.2021

1.	Department Name	Andhra Pradesh Solar Power Corporation Private Limited (A J V Company Of Govt. Of Andhra Pradesh And Govt. Of India)
2.	Circle/Division Name	Superintending Engineer / Civil / APSPCL / Guntur
3.	Tender Notice No.	<u>APSPCL-e-C- 10/2020-21/SE/Civil/APSPCL, Dt. 25.02.2021</u>
4.	Name of Work	APSPCL – CSR - Construction of Community Hall, Bus Shelter and approach road at Thummalapalli Village of B.Kodur Mandal of Kadapa Dist. A.P.
5.	Estimated Contract Value (Approximately)	Rs.29,50,753/- (Rupees Twenty Nine Lakh Fifty Thousand Seven Hundred and Fifty Three Only)
6.	Period of Contract	3 months
7.	Form of Contract	L.S
8.	Tender Type	Open
9.	Tender Category	Works
10.	Transaction Fee Payable to MD/APTS payable at Vijayawada (including GST)	Rs.1045/- (Rupees One Thousand and Forty Five Only)
11.	Bid Security (EMD)	Rs.30,000/- (Rupees Thirty Thousand only)
12.	Bid Security Payable to	By way of online payment (or) B.G drawn on any nationalized/Scheduled banks in favour of Managing Director/APSPCL/ Tadepalli.
13.	Process Fee	Not Applicable
14.	Schedule Available Date & Time	25.02.2021, 5.00 P.M.
15.	Schedule Closing Date & Time	18.03.2021, 4.00 P.M.
16.	Bid Submission closing Date & time	18.03.2021, 5.00 P.M.
17.	Bid Submission	<u>Online</u>
18.	Bid Validity	180 days from the date of opening of the Bid
19.	Pre Bid Meeting	Not Applicable
20.	Pre Qualification/ Technical Bid Opening Date (Qualification and Eligibility Stage)	No separate technical bids are required. The bidder shall submit qualification details along with price bid. The price bids will be opened only for those who meet the eligibility criteria.
21.	Price Bid Opening Date & Time	19.03.2021, 03.00 P.M. (The price bids will be opened after verification of eligibility criteria)
22.	Eligibility Criteria	<u>1. Registration</u> (i) The bidder shall be registered as Class-IV or above in any State/Central Govt. or any State/Central PSU etc. (ii) Registration under process shall not be accepted.

		2. General Responsibility for correctness of the information submitted in the online bid lies with bidder. If any information furnished in the bid is proved to be false at a later date, the bid will not only be rejected but the bidder will be BLACKLISTED.
23.	Place of Opening of Tenders	In the chambers of Superintending Engineer/Civil/ APSPCL, Flat no: 501, 5th Floor, Garuda Enclave, Beside TG Plaza, Tadepalli, Guntur-522501.
24.	Officer Inviting Bids	Superintending Engineer/Civil/APSPCL/Guntur.
25.	Address & Contact Details	Superintending Engineer/Civil/ APSPCL, Flat no: 501, 5th Floor, Garuda Enclave, Beside TG Plaza, Tadepalli, Guntur-522501. Phone: 08645-274040/41/42. E-Mail: apspcl@ap.gov.in
26.	Procedure for bid submission	a) The tender should be in the prescribed forms which can be obtained from 'e' procurement platform from the date of electronic publication up to the time and date indicated in the tender notice. The intending bidders shall enroll themselves on the 'e' procurement market-place www.apecprocurement.gov.in Those contractors who register themselves in the 'e' procurement market place can download the tender schedules at free of cost. The bidders shall authenticate the bid with his digital certificate for submitting the bid electronically on 'e' procurement platform and the bids not authenticated by digital certificate of the bidder will not be accepted on the e-procurement platform following the G.O.Ms.No.6, I.T&C Department, dated. 28-02-05.
		<p>b) Intending bidders can contact office of the Superintending Engineer/ Civil/APSPCL/Tadepalli/ Guntur -522501 for any clarification/information on any working day during working hours</p> <p>c) The bidders who are desirous of participating in e-procurement shall submit their bids etc., in the standard formats prescribed in the tender documents, displayed at "e" market place. The bidders should invariably upload the statement showing the list of documents etc., in the "e" market place in support of their Technical bids. The bidder should upload scanned copies of all relevant certificates. The bidder shall sign on all the statements, documents, certificates, uploaded by him, owning responsibility for their correctness / authenticity</p> <p>d) The Bidder shall authenticate the bid with his digital certificate for submitting the bid electronically on e-Procurement Platform and the bids not authenticated by Digital certificate of the bidder will not be accepted on the e-Procurement platform.</p> <p>e) The Department shall carry out the bid evaluation solely based on the uploaded documents, BG/online payment towards EMD in the e-procurement system.</p> <p>f) The Department will notify the successful bidder for submission of original hard copies of all uploaded documents, BG towards EMD prior to issue of LOI.</p> <p>h) The successful bidder shall invariably furnish the original BG towards EMD, Certificates/documents of the uploaded scanned copies to the Tender Inviting Authority before stipulated time given to him either personally or through courier or post and the receipt of the same within the stipulated date shall be the</p>

		<p>responsibility of the successful bidder. The Department will not take any responsibility for any delay in receipt/non-receipt of original BG towards EMD, certificates/documents, from successful bidder before the stipulated time. On receipt of documents, the Department shall ensure the genuineness of all certificates/documents uploaded by the bidder in e-procurement system in support of the qualification criteria before issue of LOI.</p> <p>i) If any successful bidder fails to submit the original hard copies of uploaded certificates/documents, BG towards EMD within the stipulated time or if any variation is noticed between the uploaded documents and the hard copies submitted by the bidder, the successful bidder will be suspended from participating in the tenders on e-procurement platform for a period of 3 years.</p>
		<p>The e-procurement system would deactivate the user ID of such defaulting successful bidder based on the trigger/recommendation by the Tender Inviting Authority in the system. Besides this, the department shall invoke all processes of law including criminal prosecution of such defaulting bidder as an act of extreme deterrence to avoid delays in the tender process for execution of the development schemes taken up by the Government.</p>
27.	Statutory Requirements	<p>The tenderer shall fulfill the following statutory requirements.</p> <p>a) Labour Rules and Regulations</p> <p>The tenderer shall comply with all statutory labour rules and regulations for EPF, GIS/ESI, Labour cess, Contract labour rules, Workmen compensation etc., as may be applicable.</p> <p>b) GST</p> <p>The tenderer should have registration under GST in the state of Andhra Pradesh from concerned department. The rates are exclusive of GST. Applicable GST on date will be allowed on the work done price against submission of GST invoice.</p>
28.	Other Payments to be made	<p>Apart from the Bid Security (EMD) the tenderer shall be liable to pay the following amounts:</p> <p>a) Transaction Fee: The participating bidders have to pay transaction fee of 0.03% (subjected to a maximum of Rs. 10,000.00) on estimated contract value of work with GST @ 18% i.e., Rs.1045/- (Rupees One Thousand and Forty Five Only) in favour of MD/APTS payable at Vijayawada at the time of bid submission electronically.</p> <p>b) Corpus Fund: Successful bidder has to pay Corpus fund @ 0.04% (subjected to a maximum of Rs. 10,000.00 for works with ECV/QV up to Rs 50.00 Crores and Rs 25,000.00 for works with ECV/QV more than Rs 50.00 Crores) through Online Payment in favour of Managing Director, APTS, Vijayawada towards corpus fund at the time of concluding agreement.</p>
29.	Documents to be submitted to the Tender inviting authority.	<p>All the bidders shall upload the scanned copies of the following documents on e-procurement system</p> <ol style="list-style-type: none"> 1) BG/online payment for EMD amount - This will be the primary requirement to consider the bid responsive. - Mandatory. 2) Contractor registration certificate - Mandatory.

		<p>Other optional documents:</p> <ol style="list-style-type: none"> 1. Registration copies of EPF, ESI/Insurance. 2. IT Returns, GST & PAN Registration. <p>Note:</p> <p>1) The tenderer is liable to be disqualified, if he is found to have mislead or furnished false information in the forms/ Statements/Certificates submitted in proof of qualification requirements and record of performance such as abandoning of work, not properly completing of earlier contracts, inordinate delay in completion of works, litigation history, financial failures and or participated in the previous tendering for the same work and has quoted unreasonable high price etc.</p> <p>2) Even while executing the work, if found that the contractor had produced false/fake certificates, he will be black listed and the contract will be terminated and his Bid security will be forfeited and work will be carried out through other agency at his cost and risk.</p>
30	Other relevant information	<ol style="list-style-type: none"> 1. APSPCL reserves the right to reject any or all the tenders without assigning any reasons thereof. 2. APSPCL reserves the right to amend or modify the tender and its conditions before 15.03.2021, 4.00 P.M. (The details will be updated in APSPCL web site) 3. Any other condition regarding receipt of tenders in conventional method appearing in the tender documents may please be treated as not applicable. 4. The contractors have to upload the information preferably in Zip format. 5. The contractors should upload the documents duly signing each and every paper. <p>For all clarifications & guidance, the bidders may contact the Superintending Engineer/Civil/ APSPCL/Tadepalli/ Guntur – 522 501.</p>

Sd/-xxxx
SUPERINTENDING ENGINEER/CIVIL

To
The Bidders through paper notification/web publication.

Copy submitted to

The Managing Director/APSPCL for favour of perusal.

Copy to:

- 1) Notice Board.
- 2) The Chief Executive Officer/APSPCL for information
- 3) The Dy.C.C.A./APSPCL/Tadepalli for information.
- 4) The Deputy Executive Engineer/Civil/APSPCL/N.P.Kunta for information.
- 5) The Deputy Executive Engineer/Elec/APSPCL/Kurnool for information.
- 6) The Deputy Executive Engineer/Civil/APSPCL/Kadapa for information.
- 7) The Deputy Executive Engineer/Civil/APSPCL/Ongole for information.

TENDER FORM

To
The Chairman & Managing Director,
APSPCL, Tadepalli,
Guntur – 522 501.

Sir,

I/We do hereby tender and, if this tender be accepted undertake to execute the work of **"APSPCL – CSR - Construction of Community Hall, Bus Shelter and approach road at Thummalapalli Village of B.Kodur Mandal of Kadapa Dist. A.P."** as shown in the drawings and as described in the specifications deposited in the office of the **Superintending Engineer/Civil/APSPCL, Tadepalli, Guntur - 522 501** with such variations by way of, alterations or additions to, and omissions from the said work and method of payment as are provided for in the "Conditions of Contract" **at the estimated contract value (ECV) PLUS (or) MINUS %** or such other sum as may be arrived at under the clause of the standard preliminary specification relating to "Payment on lump sum basis or final measurements at unit prices".

I/We agree to execute the work when the lump sum payment under the terms of agreement is varied by payment on measurement quantities.

I/We agree to keep the offer in this tender valid for a period of 180 days from the date of opening of tender and not to modify the whole or any part of it for any reason within the above period. If the tender is withdrawn by me/us for any reason whatsoever, within the validity period, the earnest money deposited by me/us will be forfeited to APSPCL.

I/We hereby distinctly and expressly declare and acknowledge that before the submission of my/our tender, I/We have carefully followed the instructions in the tender notice and have read the APSS and the Preliminary specifications therein and the APSS Addenda volume; and that I/We have made such examination of the contract documents and of the plan, specifications and quantities, and of the locations where the said work is to be done, and such investigation of the work required to be done, and in regard to the materials required to be furnished so as to enable me/us to thoroughly understand the intention of the same and the requirements, covenants, agreements, stipulations and restrictions contained in the contract and in the said plans and specifications and distinctly agree that I/We will not hereafter make any claim or demand upon the APSPCL based upon or arising out of any alleged misunderstanding or misconception or mistake on my/our part of the said requirements, covenants, agreements, stipulations restrictions and conditions.

If my/our tender is accepted, the earnest money shall be retained by the APSPCL as security for the due fulfillment of this contract. If upon written intimation to me/us by the Superintending Engineer/Civil/APSPCL/Guntur, I/We fail to attend the said office before the end of the period specified on such intimation the tender will not be considered and if, upon intimation being given to me/us by the Superintending Engineer/Civil/APSPCL/Guntur of acceptance of my/our tender, I/We fail to make the additional security deposit or to enter into the required agreement as defined **in clause 5 of the detailed tender conditions**, then I/We agree to the forfeiture of the Earnest money; Any notice required to be served on me/us here under shall be sufficiently served on me/us personally or forwarded to me/us by post (registered or ordinary) or left at my/our address given herein. Such notice if sent by post be deemed to have been served on me/us at the time when in due course of post, it would have been delivered at the address to which it was sent.

I/We fully understand that the written agreement to be entered into between me/us and the APSPCL shall be the foundation of the rights of both of the parties and the contract shall not be deemed to be completed until the agreement has first been signed by me/us and then by proper officer authorized to enter into contracts on behalf of APSPCL.

I/We am/are professionally qualified and my/our qualifications are given below.

S.No.	Name	Qualifications

I/We will employ at my/our own cost at least **1 (One) number Graduate Engineer** and other technically qualified staff in adequate numbers on full time basis and see that they are available at work site during working hours and also whenever required by the Engineer in-charge to take instructions and for arranging efficient and expeditious execution of work to the satisfaction of the Engineer-in-charge. In case we fail to employ the above mentioned technical staff we are agreeable for the recovery towards such default to be made from our bills at the rate of **Rs.50,000/- (Rupees Fifty Thousand only) per month or part thereof.**

The APSPCL directs that in the case of both Lump sum and K2 contract of Rs. 50,000 and above in value, the contractor irrespective of his class shall be required to employ the personnel on the concerned works at his own cost whether technical skill is required or not.

The appointment of staff shall be on full time basis and they shall be available at the work site whenever required by the Engineer-in-charge to take instructions. The contractor shall deploy required technical personal in addition to the above as per actual needs and as directed by the Engineer-in-charge.

I/ We have accepted the rate of progress i.e., the construction programme for the work as envisaged in this tender specification.

DETAILED TENDER NOTICE

1. Tenders in single part for the work of **"APSPCL – CSR - Construction of Community Hall, Bus Shelter and approach road at Thummalapalli Village of B.Kodur Mandal of Kadapa Dist. A.P."** should be in the prescribed form which can be obtained from 'e' procurement platform from the date of electronic publication up to the time and date indicated in the tender notice. The intending bidders shall enroll themselves on the 'e' procurement market-place www.apecurement.gov.in. Those contractors who register themselves in the 'e' procurement market place can download the tender schedules free of cost. The bidder shall authenticate the bid with his digital certificate for submitting the bid electronically on e- procurement platform **and the bids not authenticated by digital certificate of the bidder will not be accepted on the e-procurement platform** following the G.O.Ms.No.6, I.T&C Department, dated. 28.02.2005.

The intending bidders can download tender specification and submit their tenders online at e-procurement market place viz., www.apecurement.gov.in. **The tender forms can be downloaded up to 4.00 PM on 18.03.2021. Bids can be submitted up to 5.00 PM on 18.03.2021 as per NIT.**

The Price Bids will be opened through e-procurement platform by the **Superintending Engineer/Civil/APSPCL/Tadepalli on 19.03.2021 from 3.00 P.M** onwards as per NIT in his chambers at the address Flat no: 401 & 402, 4th Floor, Garuda Enclave, beside TG Plaza, Tadepalli, Guntur-522501. If the tender opening day happens to be a holiday the tenders will be opened at the same timings mentioned above on the next working day. The tenderers or their authorized agents are expected to be present at the time of opening of tenders.

Intending bidders can contact office of the *Superintending Engineer/Civil/APSPCL/Guntur* for any clarification/ information on any working day during working hours

The bidders who are desirous of participating in e- procurement shall submit their Technical bid/Price bid etc., in the standard formats prescribed in the tender documents, displayed at "e" market place www.apecurement.gov.in. The bidders should invariably upload the statement showing the list of documents etc., in the "e" market place in support of their Technical bids. The bidder should load scanned copies of all relevant certificates. The bidder shall sign on all the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity. **Responsibility for correctness of the information submitted in the online bid lies with bidder. If any information furnished in the bid is proved to be false at a later date, the bid will not only be rejected but the bidder will be BLACKLISTED.**

The Bidder shall authenticate the bid with his digital certificate for submitting the bid electronically on e-Procurement Platform and the bids not authenticated by Digital certificate of the bidder will not be accepted on the e-Procurement platform.

The Department shall carry out the technical bid evaluation solely based on the uploaded documents, BG towards EMD in the e-procurement system and open the price bids of the responsive bidders.

The Department will notify the successful bidder for submission of original hard copies of all uploaded documents, BG towards EMD prior to issue of LOI.

The successful bidder shall invariably furnish the original BG towards EMD, Certificates documents of the uploaded scanned copies to the Tender Inviting Authority before issue of LOI either personally or through courier or post and the receipt of the same within the stipulated date shall be the responsibility of the successful bidder. The Department will not take any responsibility for any delay in receipt/non-receipt of original BG towards EMD, certificates/documents from successful bidder before the stipulated time. On receipt of documents, the Department shall ensure the genuinity of the BG towards EMD and all other certificates documents uploaded by the bidder in e-procurement system in support of the qualification criteria before issue of LOI.

If any successful bidder fails to submit the original hard copies of uploaded certificates/documents, BG towards EMD within the stipulated time or if any variation is noticed between the uploaded documents and the hard copies submitted by the bidder, the successful bidder will be suspended from participating in the tenders on e-procurement platform for a period of 3 years.

The e-procurement system would deactivate the user ID of such defaulting successful bidder based on the trigger/recommendation by the Tender Inviting Authority in the system. Besides this, the department shall invoke all processes of law including criminal prosecution of such defaulting bidder as an act of extreme of the deterrence to avoid delays in the tender process for execution of the development schemes taken up by the Government.

2. The bidder shall fulfill the following statutory requirements.

a) **Income tax Clearance Certificate:**

The contractor shall furnish their copy of permanent Account Number (PAN) card and copy of latest income tax returns submitted along with the proof of receipt.

b) **Labour Rules and Regulations:**

The contractor shall comply with all statutory labour rules and regulations for EPF, GIS/ESI, Labour cess, Contract labour rules, Workmen compensation etc., as may be applicable.

c) **Goods and Services Tax:**

The tenderer should have registration under GST in the state of Andhra Pradesh from concerned department. Applicable GST as on date is 18% of total value of the contract.

3. All the bidders shall invariably upload the scanned copies of the following documents on e-procurement system.

- 1) BG/Online Payment for EMD amount - This will be the primary requirement to consider the bid responsive – Mandatory.
- 2) Contractor or nursery registration certificates – Mandatory.

Other Documents to be uploaded:

- 1) Registration copies of EPF, ESI/Insurance.
- 2) IT Returns, GST & PAN Registration.

Bid evaluation of the tenders would be done based on the certificates/ documents uploaded towards qualification criteria furnished by him/them.

In case of proprietary or partnership firm, it will be necessary to produce the certificates afore mentioned for the proprietor or proprietors and for each of the partners, as the case may be.

4. Earnest Money Deposit:

Each bidder must pay Bid Security i.e., Earnest Money Deposit of **Rs.30,000/- (Rupees Thirty Thousand Only)** while submitting their bids. The EMD shall be **paid by way of online payment/ BG drawn on** any nationalized bank in favour of Managing Director/APSPCL and payable at Tadepalli.

- i. The Earnest Money Deposit will be refunded to the unsuccessful tenderer after intimation of the rejection of the tender or at the expiration of 180 days from the date of tender whichever is earlier.
- ii. The Earnest Money will be retained in the case of successful tenderer and will not carry any interest. It will be dealt with as provided in the tender.
- iii. Tenderers are not permitted to withdraw their or his offer once made for a period of 180 days after the opening of the tenders and in the event of such tenderers withdrawing their tenders' within 180 days after opening of tenders, the Earnest Money deposited by him/them will be forfeited by the APSPCL

4.1 In addition to the EMD, the balance amount of total up to 5% of the value of contract shall be paid by the successful tenderer as security deposit by way of Bank Guarantee/Demand Draft from Nationalized Bank approved by APSPCL as per proforma appended at the time of entering into the agreement. The above security deposit shall be furnished within fifteen (15) days from date of receipt of award. Further, 5% of the value of work done will be recovered from the running bills for the due fulfillment of the contract.

The Security deposit (including EMD) will be refunded to the contractor after satisfactory completion of performance guarantee period as all defects shall have been made good according to the true intent and meaning thereof. The guarantee period commences from the date of completion of the work in all respects satisfactorily. These amounts will not bear any interest.

The retention amount which is recovered from the running bills shall be released after completion of guarantee period. These amounts will not bear any interest.

4.2 Failure to enter into the required agreement or to make the security deposit as defined in the above paragraphs shall entail forfeiture of the earnest money deposit. The written agreement to be entered in between the contractor and the APSPCL shall be the foundation of the rights of both the parties and the contract shall not be deemed to be complete until the agreement has first been signed by the contractor and then by the proper officer authorized to enter into contracts on behalf of APSPCL.

4.3 The work shall be commenced from the dates specified by APSPCL, otherwise EMD will be forfeited.

If the successful tenderer fails to sign the agreement or otherwise commit default, the APSPCL shall have the right to recover damages according to law apart from forfeiting the earnest money deposit.

5. Period of contract: 3 Months

5.1 Programme of work

The attention of the tenderer is directed to the contract requirements as to the time of beginning the work, the rate of progress and the dates for the completion of the whole work and its several parts.

The programme of work to be done from time to time is indicated below. However, the Executive Engineer / Engineer-in-charge of the work will decide the priority of various items of work and their location and direct the successful tenderer for execution so as to complete the entire work as required.

The date of commencement of this work will be the date on which the site is handed over to the Contractor. The agreement shall be concluded before the site is handed over to the contractor or before he draws any materials.

Further, it shall also be noted by the tenderer, if on any account, the work gets dislocated due to the site being not available for work on any day or due to any other reason, it is not binding on the APSPCL to pay any compensation to the contractor, but the corresponding extension of time will be granted to the contractor.

The construction programme for the works envisaged in the specification is indicated below:

S.No.	Period after date of commencement	Cumulative Percentage of the work to be completed based on contract amount	Remarks
(1)	(2)	(3)	(4)
1.	1 st Month	30 %	
2.	2 nd Month	60%	
3.	3 rd month	100%	

The periods entered in column (3) for the purpose of defining the rate of progress may be altered by the Engineer-in-charge or appropriate authority authorized by APSPCL to suit the requirements of project completion.

If, due to any other reason beyond the control of the contractor, the progress is slow during any period indicated above, the same shall be made up in subsequent periods and the programme shall be complied within minimum possible time.

The Executive Engineer / Engineer -in-charge shall direct the sequence and pace of the parts of the work and the contractor shall comply with them. Payment will be effected as per actual work completed and based on the approved mode of payment.

- 6. TERMS OF PAYMENT:** Payment for running bills shall be made to the contractor progressively, based on certification of the Executive Engineer / Engineer-in-charge.

Penalty: Action as per clause 60 and 61 of PS to APSS will be taken by the Executive Engineer / Engineer-in-charge if the contractor fails to adhere to the above programme of work.

Due to what so ever reasons, if work gets extended beyond the contract period, an amount equivalent to 5% of running account bill will be recovered in the extended period of contract from the running account

bills and release or forfeiture of this in part or full will be dealt as per the approval of competent authority of APSPCL.

7. The **Superintending Engineer/Civil/APSPCL**, or other sanctioning authority reserves the right to reject any tender in full or part or all the tenders without assigning any reason there for. The quoted percentage shall be binding on the tenderer even if the **Superintending Engineer/Civil/APSPCL** awards part of the work.

8. TAXES, DUTIES, TOLLS AND SEIGNIORAGE:

The contractor shall, unless otherwise specially stated in the tender notice and subsequently on this basis in the contract, be responsible for the payment wherever payable of all import duties, octroi duties, seigniorage, quarry fees etc. on all materials and articles that he may use.

All taxes, duties, seigniorage and local cess charges, Turnover etc, except GST, EPF, GIS & Labour Cess payable to the Govt./Quasi Govt.Bodies at the rates as on the date of opening of tender are deemed to be included in the quoted prices. **The applicable GST as on date will be paid extra on submission of GST invoice. The payment of GST is the responsibility of the contractor. Seigniorage on metal, sand, gravel etc., and local cess** will be recovered at rates fixed by competent authority from time to time from the contract bills and the same will be remitted to Mines & Minerals Department. However, **Seigniorage** charges will not recovered if the contractor submits the proof of payment of **Seigniorage** charges to the concerned department. Statutory variations in the applicable rates or newly introduced taxes/duties, **Seigniorage** and local cess will be to APSPCL account subject to the condition that the work has to be completed as per the time schedule stipulated in the contract/agreement.

The percentage less/excess on ECV quoted for the subject work shall be excluding **GST, EPF, GIS, & Labour Cess. EPF & GIS** will be reimbursed by APSPCL on production of proof of actual remittances made and subject to the satisfaction of Engineer-in-Charge that the said contribution done is only for the workers employed on this work. Labour cess will reimbursed to the contractor as per actual on production of proof of payment as per the building and other construction welfare cess act 1996. APSPCL will not reimburse any excess payment made by the contractor for any of the above due to mis-interpretation of law or any other reason.

No GST will be collected from the contractor for the materials supplied by the APSPCL at free of cost.

Notwithstanding anything contained in Section 10 of the Indian Tariff Act, of 1894, the rates for item involving the use or supply of articles obtained by the contractor from outside India shall remain unaffected by any changes that may be introduced in the Customs duties.

Other taxes and duties levied by the Central/State Govt. prevailing as on the date of opening of tenders shall be to the contractor's account and the percentage less/excess on ECV value quoted shall be inclusive of them. Any increase in taxes and duties shall be to APSPCL's account. If there is any decrease in taxes and duties, credit shall be given to APSPCL to that extent.

The APSPCL will not however be responsible for payment any other tax made by the contractor under misapprehension of law.

9. Supplemental Items:

The contractor is bound to execute all supplemental items beyond 10% of agreement quantity, deducible from similar items in the original agreement and new items that are found essential, incidental and inevitable during execution of main works, at the rates to be worked out as detailed below.

a. Fixation of rates for items of work in excess of quantities in Schedule-A Bill of Quantities of tender

The percentage less/excess on ECV quoted by the tenderer shall hold good up to 10% of quantity over those given in Bill of Quantities. Approval of competent authority is to be obtained for execution of quantities in excess of 10% beyond agreement quantity and supplemental items and new items.

For all items of work which are in excess of 10% over and above the quantities shown in Schedule-A Bill of Quantities of the tender, the rate payable for such excess quantities shall be either agreement rates or sanctioned estimate rates plus or minus overall tender percentage accepted by the competent authority whichever is less.

b. Supplemental items directly deducible from similar items in the original agreement

The rates shall be derived by adding to or subtracting from the agreement rates of such similar items, the cost of the difference in quantity of material or labour between the new item and the similar item in the agreement worked out with reference to the schedule of rates adopted in the sanctioned estimate with which the tenders were compared plus or minus overall tender percentage.

c. New Items:

i) Similar items, the rates of which cannot be directly deduced from the original agreement.

ii) Purely new items which do not correspond to any item in the agreement.

The rate shall be estimate rate plus or minus overall tender percentage.

Note: in the term estimate rate used (i) and (ii) above means the rate in the sanctioned estimate with which the tenders were compared or if no such rate is available in the estimate, the rate derived with reference to the schedule of rates adopted in the sanctioned estimate with which tenders are compared.

d. Addition of provision towards importation of labour, labour amenities, dewatering etc., in working out supplemental items:

In respect of new items, the case has to be considered on its merits and provision for importation of labour, labour amenities, dewatering etc., has to be fully justified.

If the new item is in substitution of an old item which allowed for importation of labour, labour amenities, dewatering etc., those factors may be taken into account in computing the substituted items also at the same rates at which they were originally provided.

10.0 The clause 69 (b) of PS to APSS is deleted. The following may be read in its place:

"Whenever the withheld amount reaches Rs.1,000/- or a multiple thereof, the contractor may, at his option, to deposit with the Engineer-in-charge, an equal amount in sum of Rs.1,000/- or multiples thereof in any of the forms of interest bearing securities recognized for the purpose by A.P. Public Works Accounts Code and subject to the provisions therein contained or a Bank Guarantee of a Nationalized Bank in which case the equivalent withheld amount shall be paid to him forthwith."

The contractor will be permitted to exercise the option in this clause, subject to the condition that the rate of progress contained in the Articles of Agreement is properly maintained.

11.0 Preliminary specifications of APSS except clause 73 shall apply to all agreements entered by the contractor with APSPCL and shall form an inseparable condition of the contract. The tenderer is expected to examine closely the relevant specifications of the APSS and the special specifications and ISS before submitting his tender offer.

Note: In case of contradiction between the clauses included in this specification and the clauses of PS to APSS the former will prevail over the latter and is binding on the tenderer.

12.0 ARBITRATION

All or any disputes or differences arising out of or touching the order based on this specification shall be decided by a panel of arbitrators as detailed below and as per arbitration act No.1 of 1990 to the Arbitration Act 1940 amended vide G.O.No.7 dt.19-05-1990.

<i>Value of claim</i>	<i>Panel of Arbitrators</i>
Disputes involving amounts up to Rs. 10,000/- and below.	Superintending Engineer of the APGENCO other than the circle to which the disputes relate.
Disputes involving amount from Rs. 10,000/- to Rs. 50,000/-	Any Chief Engineer of the APGENCO other than concerned Chief Engineer.

There shall not be any reference of disputes, the value of which is above Rs.50,000/- to arbitration. The parties shall approach the competent Civil Courts having jurisdiction, if any such disputes shall arise.

TENDERER'S AND CONTRACTOR'S CERTIFICATE

- a) We expressly state that we will be bound by the conditions of PS to APSS and that the contract shall be deemed to be concluded on the receipt of letter of acceptance. If thereafter we do not sign the contract or otherwise commit default, the APSPCL will be at liberty to forfeit the earnest money and recover damages in accordance with law.
- b) We hereby declare that we have perused in detail and examined closely in the APSS all clauses of preliminary specifications and have either examined all the standard specifications for items for which we tender, before we submit such tender and we agree to be bound by and comply with all such specifications for all agreements which we shall execute in the APSPCL. We have signed here below in acknowledgement thereof.
- c) We certify that we have inspected the location of the proposed work before quoting our percentage, we have also inspected the source of materials and network of roads and satisfied ourselves about the quality, availability and transport facilities for required materials through the net work of available roads and path-ways, required for the work and verified the correctness of the leads statement.
- d) We are prepared to furnish detailed data in support of all our quoted percentage, when called upon to do so without any reservations.

Signature of Tenderer/contractor

Name : _____

Designation : _____

Company : _____

Date : _____

Seal of Company

SECTION - I

SUPPLEMENTAL CONDITIONS TO THE PRELIMINARY SPECIFICATIONS TO THE APSS

The following conditions shall also be followed in addition to those mentioned in P.S. to the A.P.S.S.

1. FUNCTIONING OF THE CONTRACT

The contractor shall carryout all directions and orders issued by the Executive Engineer / Engineer – in – charge connected with the work and shall communicate with him regarding all matters pertaining to the contract.

2. CONTRACT INCLUDES ALL NECESSARY OPERATIONS

The contractor is to include the whole of works whether permanent or temporary which are described in or implied by the contract documents, which may be inferred to be obviously necessary for the efficiency, stability and completion of the permanent works, also the performance of all other operations and the supplying of all materials and things described in or implied by the contract documents which may be deemed desirable or required for the completion in all respects of the above works to the entire satisfaction of the Executive Engineer / Engineer – in – charge and all such matters shall be deemed to be included in the contract.

Works shown in the drawings and not mentioned in the specifications or described in the specifications without being shown in the drawings shall nevertheless be held to be included in this contract, in the same manner as if they had been expressly shown in the drawings and described in the specifications also.

3. OTHER CONTRACTS FOR THE WORK:

Should the APSPCL enter into other contracts for specified items of the corporate work, each contractor shall co-operate with others to the fullest extent and shall allow each other every facility and co-ordination for execution of their works simultaneously and satisfactorily as intended in the designs, specifications and drawings. Should there be dispute or disagreement between the contractors for any cause whatsoever, the same shall be referred to the Executive Engineer / Engineer – in – charge whose decision regarding the co-ordination, co-operation, and facilities to be provided by any of the contractors to the others shall be final and binding on all parties and such a decision shall not vitiate any contract nor absolve the contractor of his responsibilities under the contract.

4. SAFETY MEASURES

The contractors shall take all necessary precautions for the safety of workers and in preserving their health while working in such jobs as require special protection and preventive steps. The following are some of the measures listed but the same are not exhaustive and the contractor shall add to and augment these precautions on his own initiative where necessary and shall comply with the directions issued by the Executive Engineer / Engineer – in - Charge in this behalf from time to time, and at all times.

- i) Providing protective foot wear to workers in site situations like mixing and placing of mortar or concrete in places where the work is done under too much wet conditions.
- ii) Taking necessary steps towards training the workers concerned on the machinery before they are allowed to handle them independently and taking all necessary precautions in and around the areas where machines, hoists and similar units are working.

SECTION - II

SITE CONDITIONS

1. LOCATION & GENERAL DESCRIPTION

Kadapa Ultra Mega Solar Park, Mylavaram site is situated at about 25 KM from Jammalamadugu and 50 KM from Proddatur. The nearest Railway station is Yerraguntla. Nearest town is Jammalamadugu. The project information and data is given below:

- | | | | | |
|------|--|--|---|---------------------------------------|
| 1.01 | Owner / Purchaser | : | Andhra Pradesh Solar Power Corporation Private Limited (A J V COMPANY OF GOVT OF ANDHRA PRADESH AND GOVT OF INDIA) | |
| 1.02 | Project Title | : | Kadapa Ultra Mega Solar Park – Mylavaram Site. | |
| 1.03 | Nearest Railway Station | : | Yerraguntla
(60 KM from site) | |
| 1.04 | Name of Railway | : | South Central Railway | |
| 1.05 | Nearest Airport | : | Tirupathi
(220 KM from site) | |
| 1.06 | Altitude | : | (+) 430 m EL above mean sea level | |
| 1.07 | Climate | : | Tropical-Hot-Humid | |
| 1.08 | Ambient Temperature (Dry Bulb) | | | |
| | a) | Daily maximum (Mean) | : | 33.0 Deg. C |
| | b) | Daily minimum (Mean) | : | 25.0 Deg. C |
| 1.09 | Relative Humidity | | | |
| | a) | Maximum Humidity | : | 64 percent |
| | b) | Minimum Humidity | : | 35 percent |
| | c) | Average Humidity | : | 49 percent |
| 1.10 | Rainfall | | | |
| | a) | Maximum intensity | : | 60 mm per Hour |
| | b) | Annual Average | : | 560 mm |
| | c) | Tropical monsoon | : | June to October |
| 1.11 | Wind Velocity & Pressure (As per IS: 875-1987 Part III) | | | |
| | | Basic Wind Speed | : | 50 m/sec |
| 1.12 | Seismic Zone | : | Zone II as per IS: 1893-2002 | |
| 1.13 | Transport | | | |
| | a) | Name of highway near
Which the plant is located | : | Tadipatri to Jammalamadugu
Highway |
| | b) | Railway (Gauge) | : | Broad Gauge. |

2. SITE CONDITIONS

Before submitting the tender, the tenderer shall familiarize himself with the site conditions.

SECTION – III

RULES FOR PROVISION OF HEALTH AND SANITARY ARRANGEMENTS TO WORKERS

Rules for the provision of health and sanitary arrangements for workers shall be applicable to all classes of workers. The Contractor's special attention is invited to Clause 37, 38, 39 & 51 of PS to the APSS and he is requested to provide amenities like First Aid, Drinking Water etc at his own expense to the satisfaction of the Executive Engineer-in-Charge.

SPECIAL CONDITIONS OF CONTRACT

1.0 GENERAL

1.1 The word 'Special Conditions' shall be understood to cover all elements **effective in determining unit prices such as availability of materials**, price of materials, quantity and quality of available labour and their cost, or every other factor whatsoever, of major or secondary importance which has to be accounted for in quoting prices.

1.2 For the work covered by the Technical Specifications (Section IV) the bidder shall quote his percentage less/excess on ECV value based on the Bill of quantities (Schedule 'A') in words and figures.

Said percentage less/excess on ECV value shall bind on the bidders and shall include any expense whatsoever in connection with the delivery of materials at field site, the use of tools and equipment, cost of technical staff and labour and every other charge connected with and incidental to the complete and through execution of work.

1.3 The bidder shall make at his own risk and cost, before submitting his tender, all surveys he might consider necessary and he may carry out any market survey or technical enquiry he might require to check either the suitability of available materials or the site conditions, soil conditions etc. Permission to visit site will be granted to those bidders who have purchased the tender documents.

1.4 The contractor shall note that the scope of work and the quantity of individual items of work may vary to any extent (on the plus or minus side) as necessary during execution. The contractor shall be bound to execute all the works including above variation in quantity of individual items and extra items or additional items of work shall be executed by him as per the relevant clauses of the contract. In awarding the work against the subject specification to the contractor, APSPCL reserves the right to take out of the scope of the contract part of the work. The contractors shall have no claim for loss of profit sustained because some portions of the original contract have been allocated elsewhere nor will this be reason for the contractors to increase/decrease the percentage for the remaining portion of the contract which he shall fulfill in accordance with the contract.

The preliminary estimated quantities given in the Schedule 'A' are not to be taken as binding figures and they may vary to any extent. These quantities have been provided only for the purpose of providing a comparison of various proposals and to give bidder approximate information as to the amount of work to be performed. The total value of work actually carried out shall be measured and paid for.

1.5 **Technical Specifications**

Technical specifications for major items are described in section IV of this document. For those items which may not be covered under Section IV, the contractors shall follow the relevant Indian Standard Specifications (latest edition) with the approval of the Engineer-in-charge/Engineer-in-Charge.

1.6 **Special Notes**

The contractor shall be responsible for any delay and damage except due to force majeure reasons which are generally beyond their control and for this full justification elaborating such circumstances shall be furnished by them.

- 1.7 The contractor shall be under no liability whatsoever for damage or destruction to the work or temporary work or materials and equipment or to property or like which is due to acts of God, earthquake, lightening, gale, typhoon, storm, hurricane, or act of any Government or Strikes or Lockouts or converted action of workmen or civil War (Whether declared or not) or sabotage explosion, Civil commotion, Police action, revolution, epidemics etc., destructive artesian conditions, nuclear fusion, or Radio active disturbances etc., which they have no control and directly or indirectly affecting the operation of the contract.
- 2.0 Tenders quoted abnormally less, i.e., more than 25%, a B.G obtained in favour Managing Director/APSPCL on the State Bank of India / Andhra Bank or any Nationalized bank payable at Hyderabad for the difference between the tendered amount and 75% of the estimate value shall be furnished by the contractor invariably as additional security deposit. The period of validity of B.G shall be for a minimum period of six months. This B.G. shall not bear any interest. On successful completion of the work, the B.G. will be returned to the contractor. The period of validity shall be extended by the contractor from time to time till the B.G. is returned.

In case of contractors failing to complete the work at agreement rates, the B.G. furnished will be forfeited by the APSPCL

GENERAL CONDITIONS OF CONTRACT

1.0 DEFINITION & INTERPRETATIONS

In these general conditions of contract the following terms shall have the meanings assigned to them except where the context otherwise required.

- 1.1 "OWNER/CORPORATION" means Andhra Pradesh Solar Power Corporation Pvt., Limited (A J V Company Of Govt., Of Andhra Pradesh And Govt., Of India) and shall include their legal representative, successors and permitted assignees.
- 1.2 The "Contractor" means the individual or firm or company whether incorporated or not, under taking for execution of works and shall include legal representatives of such individual or persons composing such firms or unincorporated company successors of such firms or company as the case may be, and permitted assignees of such individual or firm or company.
- 1.3 "Contract" means the notice inviting tender, the tender and acceptance there of and the formal agreement, if any, executed between Andhra Pradesh Solar Power Corporation Pvt., Limited and the contractor together with the documents referred to therein including those conditions with appendices and any special conditions, the specifications, designs, drawings, schedule of quantities with rates and amounts and schedule of rates. All these documents taken together shall be deemed to form one contract and shall be complementary to one another.
- 1.4 The "Engineer-in-charge" means the engineering officer appointed by the corporation or his duly authorized representative who shall direct, supervise and be in charge of the works for the purpose of this contract.
- 1.5 "Work" means the works to be executed in accordance with the contract.
- 1.6 "Specifications" means the specifications forming a part of the contract for materials and works for the execution of the contract and as amplified, added or specified by special specifications, if any.
- 1.7 "Site" means the lands and or other place on, under on or through which the work is to be executed under the contract including any other lands or places which may be allotted by the corporation or used for the purpose of the contract.
- 1.8 "Letter of Award" shall mean the official notice issued by the OWNER notifying the contractor that his tender has been accepted.
- 1.9 "Guarantee period" shall mean the period during which the contractor shall remain liable for repair of any defect of the works performed under the contract.
- 1.10 Where the context so requires, words imparting the singular only also include the plural and vice-versa.
- 1.11 Heading & marginal notes to those General conditions shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction there of or of the contract.
- 1.12 All the documents pertaining to the contract including specifications, schedules correspondence etc., shall be written in English language.

2.0 **CONTRACTOR TO INFORM HIMSELF THE FOLLOWING:**

- 2.1 The contractor shall be deemed to have carefully examined all contract documents to his entire satisfaction. If he shall have any doubt as to the meaning of any portion of the contract documents, he shall, before signing the contract, set forth the particulars thereof and submit them to the corporation in writing in triplicate, in order that such doubts may be removed. The corporation will provide such clarification as may be necessary in writing to the contractor. Any information otherwise obtained from the corporation or the ENGINEER shall not in any way relieve the contractor of his responsibility to fulfill his obligations under the contract.

3.0 **DISCREPANCIES AND ADJUSTMENT OF ERRORS:**

- 3.1 If there are varying or conflicting provisions made in any documents forming part of the contract, the Managing Director shall be deciding authority with regard to the intention of document.
- 3.2 Any error in description, quantity or rate in schedule of quantities or any omission there from shall not vitiate the contract or release the contract from the execution of the whole or any part of the works completed therein according to the specification or from any of his obligations under the contract.
- 3.3 If on check, there found to be differences, between the percentage less/excess on ECV value given by the contractor in words and figures by him in the Schedule of quantities and general summary the same shall be adjusted in accordance with the following rules.
- a) In the event of a discrepancy between description in words and figures quoted by a tenderer, the description in words shall prevail.
 - b) The under signed does not bind himself to accept the lowest or any tender. The undersigned reserves the right to reject any or all tenders without assigning any reason.
 - c) Persons tendering must acquaint themselves and satisfy as to the physical conditions prevailing at the site.
 - d) No telegraphic/Fax offers will be entertained and APSPCL Ltd will not consider any postal delay.
 - e) The APSPCL reserves the right of deleting any or all items of the works mentioned in the schedule without assigning any reasons thereof. The tenderer will not be eligible to claim any sort of compensation in this regard.
 - f) The contractor shall provide to his workmen the required safety appliances including protective clothing and guards such as helmets, safety shoes, hand gloves, masks, safety belts etc., for working in Hazardous areas which shall be identified by the Engineer-in-charge.
 - g) The contractor will be required to work either in hot or cold areas, near machines in operation otherwise involving special care on part of the contractor to see that the work is carried out with safety to the men and machines and without hampering the working of the concerned departments of the corporations.

4.0 SUBLETTING OF WORKS

- 4.1 The contractor shall not assign or sublet the contract or any part thereof, allow any persons to become interested therein in any manner whatsoever without the special written permission of Superintending Engineer / Civil / APSPCL / Hyderabad. The contractor can sublet only up to a maximum of 50% of contract with the prior approval of Superintending Engineer / Civil / APSPCL / Hyderabad. Any breach of this condition shall entitle the corporation to rescind the contract and also render the contractor liable for payment to corporation in respect of any loss or damage arising or ensuring from such cancellations. The permitted subletting of work by the contractor shall not establish any contractual relationship between the sub-contractor and corporation and shall not relieve the contractor of any responsibility under the contract. In the event of sufficient dues not being available to reimburse corporation for the expenditure incurred by it for the above contractor shall reimburse corporation for the same.

5.0 ELECTRICAL SAFETY REGULATIONS

- 5.1 In no circumstances shall the contractor interfere with the fuses and electrical equipment belonging to the APSPCL or other contractors. Before the contractor connects and electrical appliances to any Board or Socket belonging to other contractors or APSPCL shall:
- a) Satisfy and obtain permission of the Engineer-in-charge to that effect.
 - b) No electrical cable used by the contractor will be disturbed without prior permission.
 - c) No weight of any description will be imposed on any such cable and no ladder or equipment will rest against or be attached to it. No work shall carry or any live equipment without PERMIT TO WORK.

6.0 FIRE PROTECTION

- 6.1 The work procedures that are to be used during the execution of work shall be those, which minimize fire hazards to the extent practicable. Combustible materials, combustible waste and rubbish shall be collected and removed from the site at least once in a day. Fuel oil, volatile or flammable materials shall be stored away from the work areas in safe containers. All the materials such as working drawings, documents etc., which are combustible but essential for the works to be executed shall be protected against combustion resulting from welding sparks, cutting, flanges and other similar fire sources, while doing welding, gas cutting work at elevated levels all care should be taken to protect sparks falling down by providing suitable coverage to avoid free fire and ensuring safety to personnel working in neighborhood.

7.0 SECURITY

- 7.1 The tenderer/Contractor shall have total responsibility for all equipment and materials in his custody, loose, semi-assembled and/or erected serviced overhauled by him at site. The Tenderer/Contractor shall make suitable security arrangements including deployment of security personnel to ensure the protection all materials, equipment and works from theft, fire, pilferage and any other damages and loss.

8.0 DEFECT LIABILITY

The contractor shall be responsible to make good and remedy at his own cost within such a period as may be stipulated by the Engineer-in-charge any defect observed during the course of execution or which may develop or may be noticed before the

expiry of the period mentioned in the Guarantee clause on intimation of which has been sent to the contractor within seven days of expiry of the said period by a letter sent by hand or Registered post.

9.0 GUARANTEE:

- 9.1** The contractor shall guarantee that all items executed by him shall be free from all defects and workmanship up to completion of work in all respects.
- 9.2** APSPCL shall also be entitled to recover any losses direct or indirect incurred due to non-fulfillment of contractual commitment in this regard.
- 9.3** The Guarantee period shall be 24 (Twelve) months from the completion of the works in all respects.

10.0 URGENT WORKS

- 10.1** If any urgent work (in respect where for the decision or Engineer-in-charge is final and binding) becomes necessary and the contractor is unable or unwilling at once to carry it out the Engineer-in-charge may by his own or other people, carry it out as he may consider necessary if the urgent work is such as a contractor is liable under the contract to carry out at his expense. All expenses incurred on it by the corporation shall be recoverable from the contractor and be adjusted or set off against any sum payable to him.

SECTION – IV

TECHNICAL SPECIFICATIONS

1.00 GENERAL

- 1) This specification is to cover plantation and maintenance of plants for the proposed work **"APSPCL – CSR - Construction of Community Hall, Bus Shelter and approach road at Thummalapalli Village of B.Kodur Mandal of Kadapa Dist.A.P."** promoted by M/s. Andhra Pradesh Solar Power Corporation Private Limited.
 - 2) Description of various items of work under this specification and nature of work in detail are given hereinafter. The complete work under this scope is referred to as CIVIL WORKS. List of various civil works covered given under the scope.
 - 3) The work to be performed under this specification consists of providing all labour, materials, consumables, equipment, temporary works, temporary labour and staff colony, constructional plant, fuel supply, transportation and all incidental items not shown or specified but reasonably implied or necessary for the completion of the work, all in strict accordance with the specifications and including revisions and amendments thereto as may be required during the execution of the work.
 - 4) All materials shall be arranged by the CONTRACTOR.
 - 5) The scope shall also include setting up of complete testing laboratory, by the CONTRACTOR, in the field to carry out all relevant tests required for the civil works for the project.
 - 6) The work shall be carried out according to the approved drawings by the APSPCL. Necessary layout and details are to be developed by the CONTRACTOR keeping in view the statutory & functional requirements and facilities of the proposed work. The quantities given in the Schedule of quantities are approximate and likely to change as per the approved drawings.
 - 7) CONTRACTOR shall inspect the site, examine and obtain all information required and satisfy himself regarding matters and things such as access to site, communications, transport, right of way, the type and number of equipment and facilities required for the work, availability of local labour, materials and their rates, local working conditions, weather, flood levels, subsoil conditions, natural drainage , etc., The contractor shall organize his own arrangements to transport his equipment, men and materials so as to match the construction schedules. Ignorance of the site conditions shall not be accepted by the APSPCL as basis for any claim for compensation or extension of time. The submission of a bid by the CONTRACTOR will be construed as evidence that such an examination was made and any later claims / disputes in this regard to rates/lumpsum quoted shall not be entertained or considered by the APSPCL.
- 1.1.** The bidders shall resolve himself the local issues, if any, during the execution without any financial implications to APSPCL.

2.00 Statutory Requirement

CONTRACTOR shall comply with all the applicable statutory rules pertaining to Factory act, Fire safety rule of Tariff Advisory Committee, Water act for Pollution control, Explosives act etc. Provisions of Safety, health and welfare according to Factories act shall also be complied with. Statutory clearances and norms of State

Pollution Control Board shall be followed. APSPCL will assist in obtaining the necessary clearances from other departments.

- 3.00** The specifications for various works should confirm to the relevant clauses of the APSS, Earth manual of USBR, MORD & MORTH and also to the special specifications included in the tender schedule. If there is any difference between them, the special specifications will be applicable. If for any item of work, detailed specifications are not indicated either in the technical specifications or in the APSS and Earth manual of USBR, MORD & MORTH then that work shall be carried out as per the instructions of Engineer-in-charge. The execution of work and tests to be conducted during construction and on the materials shall confirm to the latest relevant I.S codes.

4.00 SCOPE OF WORK:

In general broad scope of work consists of the following:

1. Earthwork in excavation.
2. Laying of Plain Cement concrete (1:4:8) using 40 mm HBG metal.
3. Construction of R.R masonry using hard stone in CM (1:6) for foundations.
4. Filling of the basement area with excavated/ locally available earth.
5. Constrcution of Brick Masonry in CM (1:6) with 2nd class Bricks on weir.
6. Providing plastering with CM (1:5), 12 mm thick.
7. Laying of vibrated RCC M20 grade design mix using 12 to 20 mm size HBG metal.
8. Painting the Internal and external walls.
9. Provide roofing with Pre-Painted Galvalume Trapezoidal profile roofing sheet of 0.50 mm thick coated.
10. Supply, fabrication and errection of truss, purlins.
11. Providing High Yield Strength Deformed (HYSD)/ Thermo Mechanically Treated (TMT) / Mild steel (MS) steel bars (Fe 415/ Fe 500 grade as per IS 1786-1979) of different diameters for RCC works.
12. Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows open able shutters/two track sliding shutters.
13. Supply and fixing Providing 75 X 100 teak wood door frame of size 1.08 X 1.98 and fixing 35mm thick BRAND FACTORY MADE MOULDED DOOR SHUTTER.
14. Supply and fixing of well seasoned best quality BALARSHA TEAK WOOD paneled door.
15. Supply and fixing of Bath room / Toilet door shutter.
16. Supply, fabrication and errection of Grill Windows.
17. Supply and fixing of Ashirvad/Ajay/Astral Flowguard or equivalent CPVC pipes of 22.20 mm OD.
18. Supply and fixing of Ashirvad/Ajay/Astral Flowguard or equivalent CPVC pipes of 28.60 mm OD.
19. Supplying, laying, jointing and testing PVC 1st class pipes of 160 mm dia.
20. Supplying, laying, jointing and testing PVC 1st class pipes of 110 mm dia.
21. Supply and fixing of 150 mm and 100 mm SWG/PVC gully trap.
22. Supply and fixing 3"(76.2mm) dia C.I Nahany traps 1st quality.
23. Supply and fixing of 12.7 mm dia N.P bib.
24. Supplying & fixing white glazed flat back Bowl Urinals.
25. Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality.
26. Providing and fixing of White glazed European style water closets of Hindustan/Neycer/Parry ISI standard make with 'S' trap.
27. Supply and fixing TV shape mirror with plastic frame of size 609.6mmX457.2mm.
28. Supplying and fixing of soap dish of ISI mark of standard size.
29. Supply & fixing towel rod (CP) of 24" long and 3/4 " dia.
30. Supply and fixing of 25 mm dia of GM gate valves.

31. Supply and fixing of 20 mm dia of GM gate valves.
32. Supply and fixing of 20 mm dia 1.55 mm thick PVC conduit pipes.
33. Supplying and fixing switches of approved make including wiring with 2 runs of 22/0.3mm.
34. Supplying and fixing 3/2 Pin sockets.
35. Supply and laying of 2 of 56/0.3mm (4 Sqmm) F.R P.V.C insulated flexible copper cable.
36. Supply and fixing of 20A modular socket along with 20 A modular switch.
37. Supply, Transportation and fixing of 26 W LED tube light set of make / Wipro / Philips.
38. Supply and fixing of batten holder/ slanting holder.
39. Supply and fixing of 1200 mm (48") sweep 230V, A.C 50 Hz.Celling fan with 3 Blades and double ball bearings.
40. Supply and fixing of 12" (300 mm), ISI, light duty exhaust fans with metallic blades.
41. Providing earthing with No.8 gauge GI wire connecting with 6mm dia bolts and nuts to 50mm dia GI pipe electrodes with a GI flange.
42. Supply and erection of Panel mounting cubical type 60/63A TPN 415V, 50 HZ.
43. Supply and erection of approved ISI make Providing & Placing on Terrace (at all floor levels) polyethylene water storage tank of 2000 Liters Capacity with Double layer.
44. Supplying and fixing of false ceiling using Plaster of paris Boards 12 mm thick.
45. Flooring with 30 mm thick Polished Cuddapah/Shabad stones.
46. Flooring in toilets with ceramic non skid tiles.
47. Dadoing to walls with first quality colored glazed tiles.
48. Providing, laying spreading and compacting of gravel approach road.

5.00 EARTH WORK EXCAVATION:

The firm shall arrange for Earthwork in excavation for foundation as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling after construction with excavated suitable material as per Technical Specification 305 MORD / 304 MORTH.

5.01 MODE OF PAYMENT:

The payment shall be made on the basis of Cubic meters.

6.00 PLAIN CEMENT CONCRETE PCC (1:4:8):

The firm shall arrange for Laying of Plain Cement concrete (1:4:8) using 40 mm HBG metal including cost and conveyance of all materials at all leads and lifts, ramming, consolidating, curing etc, complete for finished item of work as per directions of the Engineer-in-charge..

The quoted rate shall include cost and conveyance of all materials (including cost of cement), seigniorage charges, labour charges for mixing, placing, vibrating, ramming, curing, shuttering, centering, consolidation with all leads and lifts etc., complete for finished item of work as per APSS and approved drawings as directed by the Engineer-in-charge

- 6.01** Cement Concrete for P.C.C shall conform to specification No. 402 of APSS or MORTH specifications.

6.02 MODE OF PAYMENT:

The payment for PCC shall be made in cubic meters for finished item of work.

The concrete in place shall be measured length, breadth and depth or thickness limiting the dimensions to those specified in the drawings or as directed by the Engineer-in-charge. No deductions shall be made for volume occupied by the reinforcement steel and for voids formed by the rain water pipes, ducts and embedded parts and other voids and recesses having less than 65 cm² cross sectional area.

7.00 AGGREGATES FOR P.C.C/R.C.C WORKS

7.01 Coarse Aggregate:

Aggregate of sizes ranging between 4.75 mm & 150 mm will be termed as Coarse Aggregate. Only Coarse Aggregate from approved quarries & conforming to IS: 383 will be allowed to be used on the works.

7.02 Crushing value:

The aggregate crushing value, when determined in accordance with IS: 2386 (Part IV) shall not exceed forty five (45) percent for aggregate used for concrete other than for wearing surfaces, and thirty (30) percent for concrete for wearing surfaces, such as roads, pavements and floor finishes.

7.03 Impact value:

As an alternative to aggregate crushing value, the aggregate impact value may be determined in accordance with the method specified in IS: 2386 (Part-IV). The impact value shall not exceed forty five (45) percent by weight for aggregates used for concrete other than for wearing surfaces and thirty (30) percent by weight for concrete for wearing surfaces, such as roads, pavements and floor finishes.

7.04 Abrasion value:

Unless otherwise agreed to between the Purchaser and the supplier the abrasion value of aggregates, when tested in accordance with the method specified in IS: 2386 (Part-IV), using Los Angeles machine, shall not exceed the following values:

- a) For aggregates to be used in concrete for wearing surfaces Thirty (30)
- b) For aggregates to be used in other concrete (structural) Fifty (50)

7.05 Fine Aggregate:

Aggregate smaller than 4.75 mm and within the grading limits and other requirements set in IS: 383 are termed as Fine Aggregate or Sand. Only Fine Aggregate from approved sources and conforming to the above IS Specification will be allowed to be used on works.

8.0 CONCRETING

8.1 Composition:

Concrete shall be composed of cement, sand or fine aggregate, broken rock or coarse aggregate and water, all machines mixed and brought to proper consistency. Whenever so ordered by the Executive Engineer, admixtures shall be added. The exact proportion of each type of aggregate listed in these

specifications will be determined from time to time on the mechanical analysis of the aggregate stock piles and tests of resulting concrete test cubes, or cylinders. In general, the design mix proportions be adjusted to produce a durable plastic and workable concrete suitable for the specific conditions of placement and design strength.

8.2 Sampling:

Sampling of fine and coarse aggregate and cement shall be done periodically in accordance with standard practice, and tests made under the supervision of the quality control Engineer. Also the routine tests shall be made in various stages of batching operations for which the contractor shall provide all facilities necessary for procurement of representative samples for which no payment shall be made.

8.3 Slump tests:

All slump tests be made in accordance with recommended procedure given IS code 1199-1959 for reinforced concrete. The slump preferred to, shall be determined when the concrete is about to be deposited as such less slumps within the limits will be required as may, in the opinion of the Executive Engineer, be practicable to produce concrete of better quality and of greater economy. Greater slump (but in all cases limited to 6" (15 cm) maximum than those specified in the table) will be permitted in exceptional cases, wherein the opinion of the Executive Engineer, internal vibration of the concrete is not practicable and where especially authorize by the Executive Engineer for concrete in position, especially difficult for placement as in thin or heavily reinforced section.

8.4 Strength requirement:

The strength requirements of concrete proposed to be used for various items of work shall be as follows.

S.No	Grade of concrete	Compressive strength of 15 cm cubes at 20 days after mixing conducted in accordance with IS: 516-1959		Max. size of aggregate	Slump
		Preliminary test Min.	Work test Min		
1.	M20	22 N/mm ²	20 N/mm ²	20 mm size graded metal as specified	25 to 40 mm.
2.	M25	26 N/mm ²	25 N/mm ²	20 mm size graded metal as specified	25 to 40 mm.
2.	M30	32 N/mm ²	30 N/mm ²	20 mm size graded metal as specified	25 to 40 mm

Where compressive strength tests of cylinders are adopted the compressive strength given above for cubes shall be modified according to the following formulae.

Maximum cylinder compressive strength specified required	} 0.8 x compressive strength for 15 cm cubes.
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The required strength mentioned in the table are minimum crushing strength of 'work test' cylinders that must be obtained on cylinders made from concrete, either at the batching plant or at the placing point, and standard cured. The 28 days strength is the average strength of 3 test specimen taken from a single

batch provided that not more than 10% of specimens tested shall have strength less than 80% of the required strength. The average strength of all tests for a given period shall equal or exceed the required strength. If the average crushing strength is higher, the contractor shall not be entitled to any increase in payment of work on account of the actual strength being above the minimum specified. In addition to the 28 days strength tests, the Executive Engineer may at his discretion make 7 days strength tests. The minimum 7 days strength realized will not normally be less than $\frac{2}{3}$ rd of the minimum 28 days strength specified. The exact relation will be fixed on the site after studying the actual values realized. If at any time, the 7 days strength indicate that the strength of 28 days may not be achieved, as specified the Executive Engineer shall have the authority to suspend concreting operations, until the reasons have been investigated and corrected and/ or the mix has been redesigned etc., and the contractor shall comply herewith without such suspension being made a reason for any claim.

The concrete for testing shall be collected as it comes out of the mixer once or more often as the Executive Engineer may direct, and in quantity sufficient to prepare at least 3 test pieces from each sample. The compressive strength of concrete shall be determined through the medium of tests of (15 x 30 cm) cylinders. If cylinders are made they shall be made and cured in accordance with relevant Indian Standard Specification.

In addition to the strength tests carried above, it is contemplated that the tests on actual cores from the concrete laid in position shall be made, and results thereof shall not be in any case lower than those of the test pieces. If the cores taken out show unreasonably low results the work is liable to be rejected and may be required to be dismantled and redone with all consequences to the contractor. The tests shall be carried out by the contractor at his own cost and as directed by the Executive Engineer and the contractor shall afford all reasonable facilities for taking the test cores.

The contractor shall also arrange to fill the test holes left by the removal of the cores with concrete of the required strength without any extra payment and to the satisfaction of the Executive Engineer.

The contractor shall at all times have access to and associate with sampling, design and tests of trial mixes, tests of strengths and similar other operations. It shall then be the contractor's responsibility to reworking on the works, concrete of quality, density and strength corresponding to the laboratory and test designs.

The laboratory mix will be so designed that the minimum strength achieved on the laboratory test cylinder is about 25% higher than that specified above that concrete has a density of 155 lbs/ Cft or more 2486 kg/m³ and as impermeable as can be made. The same mix shall be used in the field to assure the achievement of quality specified.

Failure on the part of the contractor to associate with the operations aforesaid shall not absolve him of the responsibility of producing on the works concrete of specified quality, density and strength with design mixes determined from laboratory tests and results.

8.5 Water cement Ratio

The water cement ratio will be regulated by the requirements of workability and design, but in general will not exceed 0.60 by weight, exclusive of water absorbed by the aggregates. The amount of water shall be adjusted for any variation in the moisture content or the grading of the aggregate as they enter the mixer in any batch and shall not be more than the minimum necessary to produce concrete of the required consistency after making period specified in general or from time to

time. Uniformity shall be maintained in the consistency of concrete from batch to batch.

8.6 Proportioning of concrete:

The exact proportions in which the different gradients are to be used from the different parts, of the work shall be determined by the contractor in any one of the recognized laboratories under the supervision of the departmental staff after trial mixes, the structural concrete is to be commenced only after establishing the cement in each grade of mix as per IS: 456-2000. The cost on account of laboratory test shall be to the account of the contractor.

8.7 Cement content:

Ordinary Portland cement or equivalent shall be used for the works.

The cement content is specified as the specific weight of cement used in the manufacture of 1 Cum of concrete as measured in the finished work after vibration, consolidation, setting and curing. The actual volume of different gradients that would go in, in a batch of concrete to produce the specified volumetric unit shall be determined by tests and the cement content specified shall be put in for each batch supposed to produce the same unit of concrete in place is determined by the tests.

Any variation in the cement content shall also be similarly treated. No extra payment or deductions shall be made for variations in the several in-gradients except in cement content, which shall be adjusted as described. Variations in proportions of crushed metal and natural sand will not be considered for purposes of price variation.

If for any reasons it is found necessary to resort to volumetric batching instead of weigh batching which shall be subject to the specific approval of the Executive Engineer. The proportion of cement (by volume) to that of the various aggregates also by volume shall be so adjusted that the cement content in the specific volumetric unit of finished concrete, shall not be less than that specified for the relevant class of concrete. For this purpose one bag of cement as supplied by cement manufactures shall be taken as 1.225 cft or 50 kgs.

8.8 Admixtures:

The Executive Engineer shall have the authority at any time, and from time to time to order the addition of any air entraining agent or other admixtures, to any mix of concrete in such proportion or quantity or mode, as he may specify and the contractor shall comply with the same.

The Executive Engineer shall have the authority to arrange for the supply of the admixtures or admixtures aforesaid, through the contractor (by mutual agreement) or by other agency, as the Executive Engineer may deem fit. Should the mixing entail any additional expenditure to the contractor by way of additional plant, equipment, or operations, the same shall be paid for at actual cost, as may be determined by the Executive Engineer whose decision shall be final and binding upon the contractor.

The contractor shall not, without the written consent of the Executive Engineer, add any admixtures, to any mix of concrete and whenever such an admixtures is permitted, the Executive Engineer shall determine the adjustment in price if any, that should be made in consequence. The decision of the Executive Engineer shall be final and binding on the contractor.

8.9 Handling of aggregates:

The contractor shall at all times, maintain a live storage of all grades of aggregates of at least one week's requirement of work.

8.10 Check tests for equipments:

The tests shall be made in the presence of APSPCL representatives and shall be adequate to prove the accuracy of the measuring devices. Unless otherwise directed, tests shall be made once in two weeks in the case of all other scales. The contractor shall make such adjustments, repairs or replacements may be necessary to meet the specified requirements for accuracy of measurements.

All materials shall conform to standard specification, IS and are to be approved by the Engineer-in-charge prior to their usage in the work. For this purpose, the contractor shall whenever called up to do so, furnish samples of materials in adequate quantities and carryout all tests on materials and concrete specimens. Testing shall be done in close liaison with Engineer-in-charge or his representative and methods of test shall conform to the relevant IS Specification. Test results also shall conform to the IS Specification. The cost of samples and testing shall be borne by the contractor.

No concrete work shall be done in the absence of the Engineer-in-charge. Before placing the concrete, the Engineer-in-charge shall have inspected and approved all reinforcement in place, formwork, centering and scaffolding for concrete. At least 24 hours' notice shall be given for this purpose.

All concrete works shall be machine mixed, vibrated for proper compacting unless otherwise specified by Engineer-in-charge.

Transportation and placing methods and adequacy of equipment and procedure shall be studied in advance. All form work, reinforcement steel and location and details of embedded parts etc., shall be checked and approved by the Engineer-in-charge. Construction joints shall be made at only those positions shown on the drawing or at locations approved by the Engineer-in-charge.

All sleeves, inserts, anchors and embedded items required for adjacent work or for its supports shall be placed prior to concreting. Care shall be taken not to displace reinforcement and embedded parts during the placing and compaction of concrete.

Curing of concrete shall start after 8 hours of placement, and in hot weather within 4 hours of placement in exposed faces, and kept continuously wet preferably by continuous spraying of water after the final set for a period of at least 10 days from the date of casting, if the temperature of atmosphere during the period has been continuously above 10° C. When the temperatures are higher, the Engineer may extend the curing period for a suitably longer period.

The quoted rate for concrete shall include cost and conveyance of all materials (except basic rate of reinforcement steel which will be paid separately), labour, tools and tackle, plant and equipment, scaffolding, staging, form work, centering and shuttering, curing, leads and lifts, other incidental charges etc. complete for finished item of work. The quoted rate shall also include, wherever applicable, the cost of placing, keeping in position any embedment's or inserts, openings, joints etc., as shown in the drawings and as directed by the Engineer-in-charge. Cost towards Supply, cutting, bending and fabrication for reinforcement steel shall be paid separately.

9.00 CONSTRUCTION OF RR MASONRY IN CM (1:6):

The firm shall arrange for Construction of R.R masonry using hard stone in CM (1:6) for foundations and basement of internal walls including cost and conveyance of all materials, all labour charges, incidental charges, curing , all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.

9.01 MODE OF PAYMENT:

The payment shall be made on the basis of finished Cubic Meter.

10.00 FILLING OF THE BASEMENT AREA WITH EXCAVATED/ LOCALLY AVAILABLE EARTH:

The firm shall arrange for filling of the basement area with excavated/ locally available earth including conveyance of earth, laying of earth carefully in the basement in layers of 150mm thick, compaction of earth, labour charges etc complete for finished item of work including cost and conveyance of all materials, all labour charges, incidental charges etc., complete for finished item of work as directed by the Engineer in charge.

10.01 MODE OF PAYMENT:

The payment shall be made on the basis of finished Cubic Meter.

11.00 BRICK MASONRY IN CM (1:6):

The firm shall arrange for Construction of Brick Masonry in CM (1:6) with 2nd class Bricks for walls of community center including cost and conveyance of all materials., labour charges, Curing, all leads and lifts etc., complete for finished item of work as directed by the Engineer-in-charge..

11.01 MODE OF PAYMENT:

The payment shall be made on the basis of Cubic Meters.

12.00 12 MM THICK PLASTERING WITH CM (1:5):

The firm shall arrange for Providing plastering with CM (1:5), 12 mm thick including cost and conveyance of all materials, scaffolding, curing, labour charges, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.

12.01 MODE OF PAYMENT:

The payment shall be made on the basis of Square Metres.

13.00 RCC M20 NOMINAL MIX:

The firm shall arrange for Laying of vibrated RCC M20 grade design mix using 12 to 20 mm size HBG metal with minimum 330 Kgs of cement per cubic meter of concrete for all floors, including scaffolding, shuttering, centering, machine mixing, vibrating, curing, finishing, for SLABS including all labour, hire charges of machinery, all leads and lifts etc., complete for finished item of work but excluding cost and fabrication of reinforcement steel.

The RCC M-20 concrete should be design mix with minimum cement content of 330 Kgs per cubic meter. The firm shall conduct design mix at any approved laboratory on its cost.

The concrete used for RCC works shall be machine mixed and vibrated. RCC construction shall conform to IS: 456-2000.

13.01 MODE OF PAYMENT:

The payment shall be made on the basis of cubic meter (Cum) for finished item of work.

14.00 PAINTING THE INTERNAL AND EXTERNAL WALLS WITH TWO COATS OF PLASTIC EMULSION PAINT:

The firm shall arrange for Painting the Internal and external walls with two coats of Emulsion paint of Grade I of approved make and shade over one coat of white cement primer water base exterior grade-1 (Asian/Berger/Nerolac) including cost and conveyance of cement primer and all materials, incidental charges, all leads and lifts at all heights for all floors etc., complete for finished item of work as directed by the Engineer in charge.

14.01 MODE OF PAYMENT:

The payment shall be made on the basis of Square Metres.

15.00 PAINTING THE PRE-PAINTED GALVALUME TRAPEZOIDAL PROFILE ROOFING SHEET OF 0.50 MM THICK:

The firm shall arrange for Provide roofing with Pre-Painted Galvalume Trapezoidal profile roofing sheet of 0.50 mm thick coated with Alu-Zinc coating AZ150 GSM of approved colour and make by the Engineer-in-charge. The feed material is manufactured out of nominal 0.50 mm total coated thickness(TCT), Hi-tensile steel with in minimum 550 Mpa yield strength, regular modified polyester painting, painting thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. The sheet will have brand marking of the manufacturer giving product details on the back side of the sheet for confirming genuinely of the material. The rates includes for finished measurement area, cost & conveyance and fixing of sheets, colour bond ridges, colour bond flashings, color bond crimp curve and all required fixtures, washers, J-Bolts, hooks, all leads and lifts, all labour charges, all taxes etc., complete for finished item of work and as directed by the Engineer-in-charge.

15.01 MODE OF PAYMENT:

The payment shall be made on the basis of Square Metres.

16.00 SUPPLY, FABRICATION AND ERRECTION OF TRUSS, PURLINS AND OTHER REQUIRED SUPPORTING STRUCTURE:

The firm shall arrange for Supply, fabrication and errection of truss, purlins and other required supporting structure of Jindal, Vizag, SAIL, Tata or any other equivalent make for laying of roof sheet as directed by the engineer-in-charge including cost and conveyance of all materials, labour charges, including painting two coats with synthetic enamel paint over one coat of red Oxide paint all leads and lifts etc complete. Complete finished item of work as directed by Engineer in Charge.

16.01 MODE OF PAYMENT:

The payment shall be made on the basis of Kgs.

17.00 PROVIDING HIGH YIELD STRENGTH DEFORMED (HYSD)/ THERMO MECHANICALLY TREATED (TMT) / MILD STEEL (MS) STEEL BARS:

The firm shall arrange for Providing High Yield Strength Deformed (HYSD)/ Thermo Mechanically Treated (TMT) / Mild steel (MS) steel bars (Fe 415/ Fe 500 grade as per IS 1786-1979) of different diameters for RCC works , including labour charges for straightening, cutting, bending to required sizes and shapes, placing in position with cover blocks of approved materials from JSW,Vizag Steel, SAIL & TATA and size and tying and lap-splicing with binding wire of 18 SWG, forming grills for reinforcement work as per approved designs and drawings, including cost and conveyance of steel bars, including all wastages such as overlaps, couplings, chairs, spacer bars including cost and conveyance of binding wire, cover blocks and all incidental, operational, labour charges such as cutting, bending, placing in position, tying including sales and other taxes on all materials etc., complete for finished item of work at all elevations.

The contractors shall make his/their own arrangements for storing the materials and watch and ward at his own cost, even for the installation till the completion and handing over the building.

17.02 Bar Bending Schedules:

The Contractor shall submit to the Engineer for approval of Bar Bending Schedules with working drawings in triplicate, showing clearly the arrangements proposed by the Contractor to match available stock of reinforcing steel on receipt of the Letter of Intent or of the receipt of the relevant approved design drawings, whichever is later. Upon receipt of the Engineer's final approval of the Bar Bending Schedule and drawings, the Contractor shall submit 6 (Six) prints of the final drawings with one reproducible print after incorporating necessary modifications or corrections, for final record and distribution. Approval of such detailed drawings by the Engineer shall not relieve the Contractor of his responsibility for correctness nor of any of his obligations to meet the other requirements of the Contractor.

17.03 Cleaning:

All steel for reinforcement shall be free from loose scales, oil, grease, paint or other harmful matters immediately before placing the concrete.

17.04 Bending:

Unless otherwise specified, reinforcing steel shall be bent in accordance with the procedure specified in IS: 2502 or as approved by the Engineer. Bends & shapes shall comply strictly with the dimensions corresponding to the Approved Bar Bending Schedules. Bar Bending Schedules shall be rechecked by the Contractor before any bending is done.

No reinforcement shall be bent when already in position in the work, without approval of the Engineer, whether or not it is partially embedded in concrete. Bars shall not be straightened in a manner that will injure the material. Re-bending can be done only if approved by the Engineer. Reinforcing bars shall be bent by machine or other approved means producing a gradual and even motion. All the bars shall be cold bent unless otherwise approved. Bending hot at a

cherry-red heat (not exceeding 845 Deg. C) may be allowed under very exceptional circumstances except for bars whose strength depends on cold working. Bars bent hot shall not be cooled by quenching.

17.05 Placing in Position:

All reinforcements shall be accurately fixed and maintained in position as shown on the drawings by such approved and adequate means like mild steel chairs and/or concrete spacer blocks irrespective of whether such supports are payable or not. Bars intended to be in contact at crossing points, shall be securely tied together at all such points by No. 20 G annealed soft iron wire or by tack welding in case of Bar larger than 25 mm dia., as may be directed by the Engineer. Binders shall tightly embrace the bars with which they are intended to be in contact and shall be securely held. The vertical distance between successive layers of bars shall be maintained by provision of mild steel spacer bars. They should be spaced such that the main bars do not sag perceptibly between adjacent spacers. Before actual placing, the Contractor shall study the drawings thoroughly and inform the Engineer in case he feels that placement of certain bars is not possible due to congestion. In such cases he should not start placing any bar before obtaining clearance from the Engineer.

17.06 Measurement & Payment:

Measurements shall be made based on the standard weights of steel in 35ones corrected to third place of decimal actually used, no allowance being made for wastage. Wire required for binding the reinforcement and as also chairs, bolsters and spacers shall not be measured for payment purpose, but their cost as well as that of bending, hooking and all other works in providing and fixing the reinforcement shall be covered by the unit rates. Laps shall be measured and paid.

17.07 MODE OF PAYMENT:

The Payment shall be in Metric Tons (MT) of finished item of work.

18.00 SUPPLYING AND FIXING OF UNPLASTICISED POLY VINYL CHLORIDE (UPVC) CASEMENT WINDOWS OPENABLE SHUTTERS/TWO TRACK SLIDING SHUTTERS:

The firm shall arrange for Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows openable shutters/two track sliding shutters duly manufactured using UPVC reinforced profiles of 60 mm x 55 mm x 2.0 mm for outer frames, 70 mm x 60 mm x 2.0 mm for mullion sections for two or more openable shutters 70 mm x 60 mm x 2.0 mm for openable shutter frame capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with TPV Gaskets/ EPDM weathering seal resistant and accessories for casement window - friction stay hinges of stainless steel grade 304- 2 Nos., per sash, handle with mazak alloy casting 1 No. per sash, multipoint locking system suitably concealed 1 No., per sash provided with raiser wedges for smooth operation and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work.

18.01 MODE OF PAYMENT:

The payment shall be made on the basis of Square meters.

19.00 SUPPLY AND FIXING PROVIDING AND FIXING DOOR OF SIZE 75X100 THICK TEAK WOOD FRAME AND 35MM THICK:

The firm shall arrange for Supply and fixing Providing and fixing Door of size 75X100 thick teak wood frame and 35mm thick BRAND FACTORY MADE MOULDED DOOR SHUTTER consisting of sold core single leaf flush door of 30mm thickness, lipped with 15mm (5mm X 3) thick X 30mm width on one stiles and top rails and 10mm (5mmX2) thick X 30mm width on the other stiles and bottom rails. The inner panel laminated with 2mm thick termite proof, water proof and fire resistant moulded Pac sheet with 2,4,6 raised panel design in different panel and /or prelam colours on one side after routing the moulded design on flush door and 2mm prelam Pac sheet on other side using rubber adhesive on flush door and solvent cement adhesive on Pac lipping etc. complete as per direction of Engineer-in-Charge, manufacture specification and drawing as directed by Engineer in Charge.

19.01 MODE OF PAYMENT:

The payment shall be made on the basis of Square meters.

20.00 SUPPLY AND FIXING OF WELL SEASONED BEST QUALITY BALARSHA TEAK WOOD PANELED DOOR WITH 100X120 MM THICK:

The firm shall arrange for Supply and fixing of well seasoned best quality BALARSHA TEAK WOOD PANELED DOOR with 100x120 mm thick outer frame and 35 mm thick teak wood shutter including cost and conveyance of wood, painting the wood surface in contact with masonry with one coat of solignum paint, fixtures and fittings like MS hold fasts, brass butt hinges, brass tower bolts, brass aldrops, brass door stoppers, rubber door bushes etc., as per the statement/requirement, labour charges, all leads and lifts etc. complete for finished item of work for double leaf door of size 1.2 M x 1.98 M.

20.01 MODE OF PAYMENT:

The payment shall be made on the basis of Nos.

21.00 SUPPLY AND FIXING OF BATH ROOM / TOILET DOOR SHUTTER:

The firm shall arrange for Supply and fixing of Bath room / Toilet door shutter with 16mm laminated (IS 14276) door shutter with all-round „U“ lipping of PPS section of size 12mm X 18mmX12mmX0.6mm thickness with a hardware of 12mm dia X200mm long aluminum aldrip – 2 nos(ISI make)2 No of 125mm long handles(ISI make) and also 3 no Of IS304 grade Patee Hinges 3mmX12mmX180mm long with pole receiver of 10mm dia pole X40mm long welded on 2mm X40mm(ss304) plates works as receiver for RT patte hinges. The price inclusive of all material at site as directed by Engineer in Charge.

21.01 MODE OF PAYMENT:

The payment shall be made on the basis of Sqm.

22.00 SUPPLY, FABRICATION AND ERRECTION OF GRILL WINDOWS:

The firm shall arrange for Supply, fabrication and errection of Grill Windows and other required supporting structure of Jindal, Vizag, SAIL, Tata or any other equivalent make for laying of roof sheet as directed by the engineer-in-charge including cost and conveyance of all materials, labour charges, including painting two coats with synthetic enamel paint over one coat of red Oxide paint all leads

and lifts etc complete. complete finished item of work as directed by Engineer in Charge.

22.01 MODE OF PAYMENT:

The payment shall be made on the basis of Kg.

23.00 SUPPLY AND FIXING OF ASHIRVAD/AJAY/ASTRAL FLOWGUARD OR EQUIVALENT CPVC PIPES OF 22.20 MM OD:

The firm shall arrange for Supply and fixing of Ashirvad/Ajay/Astral Flowguard or equivalent CPVC pipes of 22.20 mm OD including cost and conveyance of CPVC pipes, specials like Tees, Elbows, unions etc, clamps, solvent cement, concealing in walls where ever required, incidental charges, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.

23.01 MODE OF PAYMENT:

The payment shall be made on the basis of RM.

24.00 SUPPLY AND FIXING OF ASHIRVAD/AJAY/ASTRAL FLOWGUARD OR EQUIVALENT CPVC PIPES OF 28.60 MM OD:

The firm shall arrange for Supply and fixing of Ashirvad/Ajay/Astral Flowguard or equivalent CPVC pipes of 28.60 mm OD including cost and conveyance of CPVC pipes, specials like Tees, Elbows, unions etc, clamps, solvent cement, concealing in walls where ever required, incidental charges, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.

24.01 MODE OF PAYMENT:

The payment shall be made on the basis of RM.

25.00 SUPPLYING, LAYING, JOINTING AND TESTING PVC 1ST CLASS PIPES OF 160 MM DIA:

The firm shall arrange for Supplying, laying, jointing and testing PVC 1st class pipes of 160 mm dia for main sewer lines with all necessary specials and fittings including cost and conveyance of all materials, caulking the joints air tight with jute and CM (1:2), curing at all heights of building, incidental charges, all leads and lifts, labour charges etc., complete for finished item of work and as directed by the Engineer in charge.

25.01 MODE OF PAYMENT:

The payment shall be made on the basis of RM.

26.00 SUPPLYING, LAYING, JOINTING AND TESTING PVC 1ST CLASS PIPES OF 110 MM DIA:

The firm shall arrange for Supplying , laying, jointing and testing PVC 1st class pipes of 110 mm dia for connecting WC and nahani traps to main sewer lines with all necessary specials and fittings including cost and conveyance of all materials, caulking the joints air tight with jute and CM(1:2), curing at all heights of building, incidental charges, all leads and lifts, labour charges etc., complete for finished item of work and as directed by the Engineer in charge.

26.01 MODE OF PAYMENT:

The payment shall be made on the basis of RM.

27.00 SUPPLY AND FIXING OF 150 MM AND 100 MM SWG/PVC GULLY TRAP:

The firm shall arrange for Supply and fixing of 150 mm and 100 mm SWG/PVC gully trap of ISI make with CI gratings and construction of brick masonry in CM 1:6 and fitted with 304.80mm X 288.60mm CI Frame and hinged cove. Curing, all leads and lifts, labour charges etc., complete for finished item of work as directed by the Engineer in charge.

27.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

28.00 SUPPLY AND FIXING 3"(76.2MM) DIA C.I NAHANY TRAPS 1ST QUALITY:

The firm shall arrange for Supply and fixing 3"(76.2mm) dia C.I Nahany traps 1st quality with CI grating in toilets, dining hall and kitchen etc., including cost and conveyance of all materials, labour charges for fixing, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.

28.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

29.00 SUPPLY AND FIXING OF 12.7 MM DIA N.P BIB:

The firm shall arrange for Supply and fixing of 12.7 mm dia N.P bib tap indian make of heavy duty of standard quality (ISI) with specials including cost and conveyance of taps, other accessories, labour charges for fixing, all leads and lifts etc., complete for finished item of work.

29.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

30.00 SUPPLYING & FIXING WHITE GLAZED WHITE GLAZED FLAT BACK BOWL URINALS:

The firm shall arrange for Supplying & Fixing white glazed white glazed flat back Bowl urinals of size 440 mm x 265 mm x 315 mm with internal flushing rim fixed with screws complete Indian make conforming to IS:2556-1995 Angular stop cock of approved make, Sec-6-1974 fixed with screws, PVC pipe connector, cost and conveyance of all material, labour charges etc., complete for finished item of work as directed by the Engineer-in-charge.

30.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

31.00 SUPPLYING & FIXING INDIAN MAKE FLAT BACK WASH HAND BASIN 1ST QUALITY:

The firm shall arrange for Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 450 x 300 mm - Single C.P. Pillar cock with all accessories, labour charges for fixing including cost and conveyance of all materials, incidental charges, all leads and lifts etc., complete for finished item of work.

31.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

32.00 PROVIDING AND FIXING OF WHITE GLAZED EUROPEAN STYLE WATER CLOSETS OF HINDUSTAN/NEYCER/PARRY ISI STANDARD MAKE WITH 'S' TRAP:

The firm shall arrange for Providing and fixing of White glazed European style water closets of Hindustan/Neycer/Parry ISI standard make with 'S' trap including plastic seat and lid, Approved make angular stop cock, approved make CP bib cock cum health faucet with 1 m long flexible tube, 8 lits capacity PVC low level single flush tank with all internal components & short bends, PVC pipe connector, cost and conveyance of all material, labour charges etc., complete for finished item of work as directed by the Engineer-in-charge.

32.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

33.00 SUPPLY AND FIXING TV SHAPE MIRROR WITH PLASTIC FRAME OF SIZE 609.6 MM X 457.2 MM:

The firm shall arrange for Supply and fixing TV shape mirror with plastic frame of size 609.6mmX457.2mm including cost and conveyance of all materials, incidental charges, all leads and lifts etc., complete for finished item of work, as directed by the engineer in charge.

33.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

34.00 SUPPLYING AND FIXING OF SOAP DISH OF ISI MARK OF STANDARD SIZE:

The firm shall arrange for Supplying and fixing of soap dish of ISI mark of standard size, rate including cost and conveyance all materials, all leads and lifts, all labour charges, all incidental charges, fixing charges etc. complete for finished item of work as directed by the Engineer-in-charge.

34.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

35.00 SUPPLY & FIXING TOWEL ROD (CP) OF 24" LONG AND 3/4 " DIA:

The firm shall arrange for Supply & fixing towel rod (CP) of 24" long and 3/4 " dia with specials including cost and conveyance of towel rod, specials, labour charges for fixing, incidental charges, all leads and lifts etc., complete for finished item of work.

35.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

36.00 SUPPLY AND FIXING OF 25 MM DIA OF GM GATE VALVES:

The firm shall arrange for Supply and fixing of 25 mm dia of GM gate valves life make (ISI) mark including cost and conveyance of gate valve, labour charges for fixing, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.

36.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

36.00 SUPPLY AND FIXING OF 20 MM DIA OF GM GATE VALVES:

The firm shall arrange for Supply and fixing of 20 mm dia of GM gate valves life make (ISI) mark including cost and conveyance of gate valve, labour charges for fixing, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.

36.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

37.00 SUPPLY AND FIXING OF 20 MM DIA 1.55 MM THICK PVC CONDUIT PIPES:

The firm shall arrange for Supply and fixing of 20 mm dia 1.55 mm thick PVC conduit pipes of ISI standard Sudhakar / finolex or approved equivalent quality for concealed electrification inside walls and roof slab with necessary GI wire to draw electric wires at a later date including cost and conveyance of pipes, junction boxes, incidental charges, all leads and lifts, required accessories, including masonry work and labour charges etc., complete for finished item of work as directed by the engineer in charge.

37.01 MODE OF PAYMENT:

The payment shall be made on the basis of RM.

38.00 SUPPLYING AND FIXING SWITCHES OF APPROVED MAKE INCLUDING WIRING WITH 2 RUNS OF 22/0.3MM:

The firm shall arrange for Supplying and fixing switches of approved make including wiring with 2 runs of 22/0.3mm (1.5 Sqm) P.V.C. insulated F.R flexible copper cable (ISI MARK) in existing pipe with 6A/10A modular switch (Anchor, finolex, Legrand other approved make by engineer-in-charge), Ceiling rose including all labour charges, incidental charges, all leads and lifts, fixing of concealed metal box and modular cover frame etc., complete in all floors for light,

bell, fan and exhaust fan points etc., in buildings for finished item of work including cost of metal box complete in all respects.

38.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

39.00 SUPPLYING AND FIXING 3/2 PIN SOCKETS:

The firm shall arrange for Supplying and fixing 3/2 Pin sockets including wiring with 2 runs of 36/0.3 mm (2.5 Sqm) P.V.C. insulated F.R flexible copper cable (Finolex, Legrand or other ISI MARK) in existing pipe with 6A Mini Modular switch control and 3/2 pin sockets fixing on modular switch board including all labour charges, incidental charges, all leads and lifts etc., complete in all floors for finished item of work.

39.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

40.00 SUPPLY AND LAYING OF 2 OF 56/0.3 MM (4 SQ MM) F.R P.V.C INSULATED FLEXIBLE COPPER CABLE:

The firm shall arrange for Supply and laying of 2 of 56/0.3mm (4 Sqmm) F.R P.V.C insulated flexible copper cable of ISI standard PHINOLEX or equalent approved quality in the existing concealed PVC pipes for mains including all labour charges, incidental charges, all leads and lifts etc., complete for finished item of work.

40.01 MODE OF PAYMENT:

The payment shall be made on the basis of RM.

41.00 SUPPLY AND FIXING OF 20A MODULAR SOCKET ALONG WITH 20 A MODULAR SWITCH:

The firm shall arrange for Supply and fixing of 20A modular socket along with 20 A modular switch (Anchor, Legrand or other approved make by engineer-in-charge) with indicator including earth connections and all labour charges, incidental charges, all leads and lifts etc., fixing of concealed metal box and modular cover frame etc. complete for finished item of work as directed by the engineer in charge.

41.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

42.00 SUPPLY, TRANSPORTION AND FIXING OF 26 W LED TUBE LIGHT SET OF MAKE / WIPRO / PHILIPS:

The firm shall arrange for Supply, Transportation and fixing of 26 W LED tube light set of make / Wipro / Philips including all accessories, all incidental charges, all leads and lifts etc., complete for finished item of work.

42.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

43.00 SUPPLY, TRANSPORTION AND FIXING OF 26 W LED TUBE LIGHT SET OF MAKE / WIPRO / PHILIPS:

The firm shall arrange for Supply, Transportation and fixing of 26 W LED tube light set of make / Wipro / Philips including all accessories, all incidental charges, all leads and lifts etc., complete for finished item of work.

43.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

44.00 SUPPLY AND FIXING OF BATTEN HOLDER/ SLANTING HOLDER:

The firm shall arrange for Supply and fixing of batten holder/ slanting holder in lieu of ceiling rose of light point complete with all connectoins, 40 W Bulb and all labour charges of ISI standard PHILIPS make including fixing charges, incidental charges, all leads and lifts etc., complete for finished item of work as directed by the engineer in charge.

44.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

45.00 SUPPLY AND FIXING OF 1200 MM (48") SWEEP 230V, A.C 50 HZ. CEILING FAN WITH 3 BLADES AND DOUBLE BALL BEARINGS:

The firm shall arrange for Supply and fixing of 1200 mm (48") sweep 230V, A.C 50 Hz. Ceiling fan with 3 Blades and double ball bearings with all standard accessories of ISI standard Crompton HS Plus / Havells ES Neo / Orient Energy Star/ Halonix (Zephyr)/ Polycab (Synergy Star) make with necessary down rods of stem type including cost and conveyance of all materials, cost of electronic fan regulator, labour charges, incidental charges, all leads and lifts etc., complete for finished item of work as directed by the engineer in charge.

45.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

46.00 SUPPLY AND FIXING OF 12" (300 MM), ISI, LIGHT DUTY EXHAUST FANS WITH METALLIC BLADES:

The firm shall arrange for Supply and fixing of 12" (300 mm), ISI, light duty exhaust fans with metallic blades of approved make Crompton, Almounard / Havells turbo force including cost and conveyance of material, labour charges, incidental charges, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.

46.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

47.00 PROVIDING EARTHING WITH NO.8 GAUGE GI WIRE CONNECTEC WITH 6MM DIA BOLTS AND NUTS TO 50MM DIA GI PIPE ELECTRODES WITH A GI FLANGE:

The firm shall arrange for Providing earthing with No.8 gauge GI wire connectec with 6mm dia bolts and nuts to 50mm dia GI pipe electrodes with a GI flange including cost and conveyance of all materials and construction of earth pit with brick masonry of size 1Mx1M (external) and 1.75M deep, incidental charges,all leads and lifts etc., complete for finished item of work.

47.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

48.00 SUPPLY AND ERECTION OF PANEL MOUNTING CUBICAL TYPE 60 / 63A TPN 415V, 50 HZ:

The firm shall arrange for Supply and erection of Panel mounting cubical type 60 / 63A TPN 415V, 50 HZ. 4 Nos of Switch disconnector fuse unit complete of make L&T/GE/C & S with front drive mechanism with door inter lock, padlocking arrangement, all leads and lifts etc.,complete with HRC fuse links on control panel for finished item of work as directed by Engineer in Charge.

48.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

49.00 SUPPLY AND ERECTION OF APPROVED ISI MAKE PROVIDING & PLACING ON TERRACE (AT ALL FLOOR LEVELS) POLYETHYLENE WATER STORAGE TANK OF 2000 LITERS CAPACITY WITH DOUBLE LAYER:

The firm shall arrange for Supply and erection of approved ISI make Providing & Placing on Terrace (at all floor levels) polyethylene water storage tank of 2000 Liters Capacity with Double layer approved brand & manufacture with cover and suitable locking arrangement & making necessary holes for inlet & outlets and over flow pipes but without fittings & base support for tanks of 1000 Its capacity including cost and conveyance of all materials, all fixtures, all leads and lifts complete as per the directions of the Engineer in charge for the finished item of work.

49.01 MODE OF PAYMENT:

The payment shall be made on the basis of No's.

50.00 SUPPLYING AND FIXING OF FALSE CEILING USING PLASTER OF PARIS BOARDS 12 MM THICK:

The firm shall arrange for Supplying and fixing of false ceiling using Plaster of paris Boards 12 mm thick with standard GI ceiling angles, sections perimeter channels including cost and conveyance of all materials and labour charges etc complete including cost and conveyance of all materials, all fixtures, all leads and lifts complete as per the directions of the Engineer in charge for the finished item of work.

50.01 MODE OF PAYMENT:

The payment shall be made on the basis of Sqm.

51.00 FLOORING WITH 30 MM THICK POLISHED CUDDAPAH/SHABAD STONES:

The firm shall arrange for Flooring with 30 mm thick Polished Cuddapah/Shabad stones, set over base coat of cement mortar (1 : 8) 12 mm thick over CC bed already laid including pointing with cement mortar 1:3 duly filling joints nearly, including cost of all materials like flooring stone, cement, sand, and water etc., complete, including seigniorage charges, labour charges for dressing of flooring stones etc., complete for finished item of work, but excluding the cost of conveyance of all materials.

51.01 MODE OF PAYMENT:

The payment shall be made on the basis of Sqm.

52.00 FLOORING IN TOILETS WITH CERAMIC NON SKID TILES:

The firm shall arrange for Flooring in toilets with ceramic non skid tiles of first quality make as approved by Engineer-in-charge Non-skid red or white full body Ceramic floor tiles of size 400 x 400 mm and thickness between 7-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs set over a base coat of CM(1:8) 20 mm thick over CC bed already laid including neat cement slurry of honey like consistency spread at the rate of 3.3Kgs per Sqm and filling the joints with white cement paste (but excluding basic cost of cement) cost and conveyance of sand, water, ceramic tiles, white cement etc., to work site, seigniorage charges, cost of base coat, all labour charges for mixing of cement mortar laying tiles to required slope, curing,, all incidental charges and operational charges,all leads and lifts etc., complete for finished item of work.

52.01 MODE OF PAYMENT:

The payment shall be made on the basis of Sqm.

53.00 DADOING TO WALLS WITH FIRST QUALITY COLOURED GLAZED TILES:

The firm shall arrange for Dadoing to walls with first quality coloured glazed tiles of approved make and design as approved by Engineer in charge of glazed red or white full body ceramic wall tiles of size 300 x 450 mm / 320 mm x 400 mm and thickness 6 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs in bath rooms, toilets and kitchen set over a base coat of CM (1:5) 12 mm thick and neat grey cement slurry of honey like consistency spread at the rate of 3.3 Kg/Sqm and jointed with white cement paste mixed with pigments of matching shade to match the shade of tiles including conveyance charges of cement (but excluding basic cost of cement) including cost and conveyance of all materials and water to work site, seigniorage charges, all labour charges for mixing of cement mortar, fixing in position, lift charges, curing, cutting the brick masonry and re-doing the same such that the top surface of the tiles is to be flushed with plastered surface, all incidental charges and operational charges all leads and lifts etc., complete for finished item of work.

53.01 MODE OF PAYMENT:

The payment shall be made on the basis of Sqm.

54.00 PROVIDING, LAYING SPREADING AND COMPACTING OF GRAVEL APPROACH ROAD:

The firm shall arrange for Providing, laying spreading and compacting of gravel approach road to the Community hall from Bramhamgari Matam-Badvel connecting road with local material in block or large discrete particles, such as naturally occurring gravels etc. including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming requisite type of screening /binding materials to fill-up the interstices of laid material watering and compacting to the required density as per Clause 405.3 and Technical Specification Clause 408 MORD. including cost and conveyance of all materials, machinery and labour chargers, all leads and lifts complete finished item of work as directed by Engineer in Charge.

54.01 MODE OF PAYMENT:

The payment shall be made on the basis of LS.

SCHEDULE – A**BILL OF QUANTITIES**

- a) The quantities given in the bill of quantities are approximate but they are subject to alterations, omissions, deductions or additions as provided for in the conditions of this contract and do not necessarily show the actual quantities of work to be done. The unit rates noted below are those governing payment of extras or deductions for omissions according to the conditions of the contract as set forth in the preliminary specifications of the A.P. Standard Specifications and other conditions and specifications of this contract.
- b) It is to be expressly understood that the measured work is to be taken net (not withstanding any custom or practice to the contrary) according to the actual quantities when in place and finished according to the drawings or as may be ordered from time to time by the Engineer-in-charge and the cost calculated by measuring or weight at the respective prices without any additional charges for any necessary or contingent works connected therewith.
- c) For all items of work which are more than 10% in excess of the quantities shown in the bill of quantities the rate payable for excess quantities beyond 10% shall be either tender rate or the SS rate for the item plus or minus the overall tender percentage whichever is less. The SS rate means the rate with in the estimate has been prepared for comparison with tenders.
- d) The rates quoted by the contractor are firm till completion of the work in all respects. No price variation of rates is allowed in case of delay in handing over of site to the contractors, if any by the department. However, corresponding extension of time will only be granted to the contractors.

SCHEDULE-A						
Name of work : APSPCL - CSR - Construction of Community Hall, Bus Shelter and approach road at Thummalapalli Village of B.Kodur Mandal of Kadapa Dist. A.P.						
S. No	Quantity		Description of Item	Rate (Rs)	per	Amount (Rs)
1	250.00	Cum	Earthwork in excavation for foundation as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling after construction with excavated suitable material as per Technical Specification 305 MORD / 304 MORTH for finished item of work as directed by the Engineer-in-charge.	190.00	Cum	47,500.00
2	40.00	Cum	Laying of Plain Cement concrete (1:4:8) using 40 mm HBG metal including cost and conveyance of all materials at all leads and lifts, ramming, consolidating, curing etc, complete for finished item of work as per directions of the Engineer-in-charge.	4,086.00	Cum	1,63,440.00
3	80.00	Cum	Construction of R.R masonry using hard stone in CM (1:6) for foundations and basement of internal walls including cost and conveyance of all materials, all labour charges, incidental charges, curing , all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.	3,752.00	Cum	3,00,160.00
4	150.00	Cum	Filling of the basement area with excavated/ locally available earth including conveyance of earth, laying of earth carefully in the basement in layers of 150mm thick, compaction of earth, labour charges etc complete for finished item of work including cost and conveyance of all materials, all labour charges, incidental charges etc., complete for finished item of work as directed by the Engineer in charge.	328.00	Cum	49,200.00
5	70.00	Cum	Construction of Brick Masonry in CM (1:6) with 2nd class Bricks including cost and conveyance of all matreials., labour charges, Curing, all leads and lifts etc., complete for finished item of work as directed by the Engineer-in-charge.	5,801.00	Cum	4,06,070.00
6	700.00	Sqm	Providing plastering with CM (1:5), 12 mm thick including cost and conveyance of all materials, scaffolding, curing, labour charges, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.	273.00	Sqm	1,91,100.00
7	45.00	Cum	Laying of vibrated RCC M20 grade design mix using 12 to 20 mm size HBG metal with minimum 330 Kgs of cement per cubic meter of concrete for all floors, including scaffolding, shuttering, centering, machine mixing, vibrating, curing, finishing, wherever required including all labour, hire charges of machinery, all leads and lifts etc., complete for finished item of work but excluding cost and fabrication of reinforcement steel, as directed by the Engineer.	9,335.00	Cum	4,20,075.00

8	700.00	Sqm	Painting the Internal and external walls with two coats of Emulsion paint of Grade I of approved make and shade over one coat of white cement primer water base exterior grade-1 (Asian/Berger/Nerolac) including cost and conveyance of cement primer and all materials, incidental charges, all leads and lifts at all heights for all floors etc., complete for finished item of work as directed by the Engineer in charge.	205.00	Sqm	1,43,500.00
9	170.00	Sqm	Provide roofing with Pre-Painted Galvalume Trapezoidal profile roofing sheet of 0.50 mm thick coated with Alu-Zinc coating AZ150 GSM of approved colour and make by the Engineer-in-charge. The feed material is manufactured out of nominal 0.50 mm total coated thickness(TCT), Hi-tensile steel with in minimum 550 Mpa yield strength, regular modified polyester painting, painting thickness (Top): 18 to 20 Microns, (Bottom): 5 to 7 Microns. The sheet will have brand marking of the manufacturer giving product details on the back side of the sheet for confirming genuinely of the material. The rates includes for finished measurement area, cost & conveyance and fixing of sheets, colour bond ridges, colour bond flashings, color bond crimp curve and all required fixtures, washers, J-Bolts, hooks, all leads and lifts, all labour charges, all taxes etc., complete for finished item of work and as directed by the Engineer-in-charge	584.00	Sqm	99,280.00
10	1000.00	Kgs	Supply, fabrication and erection of truss, purlins and other required supporting structure of Jindal, Vizag, SAIL, Tata or any other equivalent make for laying of roof sheet as directed by the engineer-in-charge including cost and conveyance of all materials, labour charges, including painting two coats with synthetic enamel paint over one coat of red Oxide paint all leads and lifts etc complete. complete finished item of work as directed by Engineer in Charge	117.00	Kgs	1,17,000.00
11	5.00	Mt	Providing High Yield Strength Deformed (HYSD)/ Thermo Mechanically Treated (TMT) / Mild steel (MS) steel bars (Fe 415/ Fe 500 grade as per IS 1786-1979) of different diameters for RCC works , including labour charges for straightening, cutting, bending to required sizes and shapes, placing in position with cover blocks of approved materials from JSW, Vizag Steel, SAIL & TATA and size and tying and lap-splicing with binding wire of 18 SWG, forming grills for reinforcement work as per approved designs and drawings, including cost and conveyance of steel bars, including all wastages such as overlaps, couplings, chairs, spacer bars including cost and conveyance of binding wire, cover blocks and all incidental, operational, labour charges such as cutting, bending, placing in position, tying including sales and other taxes on all materials etc., complete for finished item of work at all elevations as directed by the Engineer-in-charge.	62,400.00	Mt	3,12,000.00

12	5.00	Sqm	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) casement windows openable shutters/two track sliding shutters duly manufactured using UPVC reinforced profiles of 60 mm x 55 mm x 2.0 mm for outer frames, 70 mm x 60 mm x 2.0 mm for mullion sections for two or more openable shutters 70 mm x 60 mm x 2.0 mm for openable shutter frame capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with TPV Gaskets/ EPDM weathering seal resistant and accessories for casement window - friction stay hinges of stainless steel grade 304- 2 Nos., per sash, handle with mazak alloy casting 1 No. per sash, multipoint locking system suitably concealed 1 No., per sash provided with raiser wedges for smooth operation and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work as directed by the Engineer-in-charge.	7,261.00	Sqm	36,305.00
13	5.00	Sqm	Supply and fixing of 75 X 100 teak wood door frame of size 1.08 X 1.98 and fixing 35mm thick BRAND FACTORY MADE MOULDED DOOR SHUTTER consisting of sold core single leaf flush door of 30mm thickness, lipped with 15mm (5mm X 3) thick X 30mm width on one stiles and top rails and 10mm (5mmX2) thick X 30mm width on the other stiles and bottom rails. The inner panel laminated with 2mm thick termite proof, water proof and fire resistant moulded Pac sheet with 2,4,6 raised panel design in different panel and /or prelam colours on one side after routing the moulded design on flush door and 2mm prelam Pac sheet on other side using rubber adhesive on flush door and solvent cement adhesive on Pac lipping etc. complete as per direction of Engineer-in-Charge, manufacture specification and drawing as directed by Engineer in Charge.	3,097.00	Sqm	15,485.00
14	1.00	No	Supply and fixing of well seasoned best quality BALARSHA TEAK WOOD PANELED DOOR with 100x120 mm thick outer frame and 35 mm thick teak wood shutter including cost and conveyance of wood, painting the wood surface in contact with masonry with one coat of solignum paint, fixtures and fittings like MS hold fasts, brass butt hinges, brass tower bolts, brass aldrops, brass door stoppers, rubber door bushes etc., as per the statement/requirement, labour charges, all leads and lifts etc. complete for finished item of work for double leaf door of size 1.2M x 1.98M as directed by the Engineer-in-charge.	18,896.00	No	18,896.00

15	5.00	Sqm	Supply and fixing of Bath room / Toilet door shutter with 16mm laminated (IS 14276) door shutter with all-round „U“ lipping of PPS section of size 12mm X 18mmX12mmX0.6mm thickness with a hardware of 12mm dia X200mm long aluminum aldop – 2 nos(ISI make)2 No of 125mm long handles(ISI make) and also 3 no Of IS304 grade Patee Hinges 3mmX12mmX180mm long with pole receiver of 10mm dia pole X40mm long welded on 2mm X40mm(ss304) plates works as receiver for RT patte hinges. The price inclusive of all material at site as directed by Engineer in Charge.	2,573.00	Sqm	12,865.00
16	900.00	Kgs	Supply, fabrication and erection of Grill Windows and other required supporting structure of Jindal, Vizag, SAIL, Tata or any other equivalent make for laying of roof sheet as directed by the engineer-in-charge including cost and conveyance of all materials, labour charges, including painting two coats with synthetic enamel paint over one coat of red Oxide paint all leads and lifts etc complete. complete finished item of work as directed by Engineer in Charge	66.00	Kgs	59,400.00
17	60.00	Rms	Supply and fixing of Ashirvad/Ajay/Astral Flowguard or equivalent CPVC pipes of 22.20 mm OD including cost and conveyance of CPVC pipes, specials like Tees, Elbows, unions etc, clamps, solvent cement, concealing in walls where ever required, incidental charges, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.	97.00	Rms	5,820.00
18	60.00	Rms	Supply and fixing of Ashirvad/Ajay/Astral Flowguard or equivalent CPVC pipes of 28.60 mm OD including cost and conveyance of CPVC pipes, specials like Tees, Elbows, unions etc, clamps, solvent cement, concealing in walls where ever required, incidental charges, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.	140.00	Rms	8,400.00
19	25.00	Rms	Supplying , laying, jointing and testing PVC 1st class pipes of 160 mm dia for main sewer lines with all necessary specials and fittings including cost and conveyance of all materials, caulking the joints air tight with jute and CM (1:2), curing at all heights of building, incidental charges, all leads and lifts, labour charges etc., complete for finished item of work and as directed by the Engineer in charge.	739.00	Rms	18,475.00
20	60.00	Rms	Supplying , laying, jointing and testing PVC 1st class pipes of 110 mm dia for connecting WC and nahani traps to main sewer lines with all necessary specials and fittings including cost and conveyance of all materials, caulking the joints air tight with jute and CM(1:2), curing at all heights of building, incidental charges, all leads and lifts, labour charges etc., complete for finished item of work and as directed by the Engineer in charge.	394.00	Rms	23,640.00

21	4.00	nos	Supply and fixing of 150 mm and 100 mm SWG/PVC gully trap of ISI make with CI gratings and construction of brick masonry in CM 1:6 and fitted with 304.80mm X 288.60mm CI Frame and hinged cove. Curing, all leads and lifts, labour charges etc., complete for finished item of work as directed by the Engineer in charge.	496.00	nos	1,984.00
22	2.00	nos	Supply and fixing 3"(76.2mm) dia C.I Nahany traps 1st quality with CI grating in toilets, dining hall and kitchen etc., including cost and conveyance of all materials, labour charges for fixing, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.	529.00	nos	1,058.00
23	4.00	nos	Supply and fixing of 12.7 mm dia N.P bib tap indian make of heavy duty of standard quality (ISI) with specials including cost and conveyance of taps, other accessories, labour charges for fixing, all leads and lifts etc., complete for finished item of work as directed by the Engineer-in-charge.	254.00	nos	1,016.00
24	2.00	nos	Supplying & Fixing white glazed flat back Bowl urinals of size 440 mm x 265 mm x 315 mm with internal flushing rim fixed with screws complete Indian make conforming to IS:2556-1995 Angular stop cock of approved make, Sec-6-1974 fixed with screws, PVC pipe connector, cost and conveyance of all material, labour charges etc., complete for finished item of work as directed by the Engineer-in-charge.	1,577.00	nos	3,154.00
25	2.00	nos	Supplying & Fixing Indian make Flat Back Wash Hand Basin 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963-1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/Senior/ Nice/ Esso or equivalent complete with standard CI brackets including wooden block: 450 x 300 mm - Single C.P. Pillar cock with all accessories, labour charges for fixing including cost and conveyance of all materials, incidental charges, all leads and lifts etc., complete for finished item of work as directed by the Engineer-in-charge.	1,557.00	nos	3,114.00
26	2.00	nos	Providing and fixing of White glazed European style water closets of Hindustan/Neycer/Parry ISI standard make with 'S' trap including plastic seat and lid, Approved make angular stop cock, approved make CP bib cock cum health faucet with 1 m long flexible tube, 8 lits capacity PVC low level single flush tank with all internal components & short bends, PVC pipe connector, cost and conveyance of all material, labour charges etc., complete for finished item of work as directed by the Engineer-in-charge.	3,923.00	nos	7,846.00

27	2.00	nos	Supply and fixing TV shape mirror with plastic frame of size 609.6mmX457.2mm including cost and conveyance of all materials, incidental charges, all leads and lifts etc., complete for finished item of work, as directed by the engineer in charge.	514.00	nos	1,028.00
28	2.00	nos	Supplying and fixing of soap dish of ISI mark of standard size, rate including cost and conveyance all materials, all leads and lifts, all labour charges, all incidental charges, fixing charges etc. complete for finished item of work as directed by the Engineer-in-charge.	237.00	nos	474.00
29	2.00	nos	Supply & fixing towel rod (CP) of 24" long and 3/4 " dia with specials including cost and conveyance of towel rod, specials, labour charges for fixing, incidental charges,all leads and lifts etc., complete for finished item of work as directed by the Engineer-in-charge.	454.00	nos	908.00
30	1.00	nos	Supply and fixing of 25 mm dia of GM gate valves life make (ISI) mark including cost and conveyance of gate valve, labour charges for fixing, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.	1,194.00	nos	1,194.00
31	1.00	nos	Supply and fixing of 20 mm dia of GM gate valves life make (ISI) mark including cost and conveyance of gate valve, labour charges for fixing, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.	833.00	nos	833.00
32	120.00	Rms	Supply and fixing of 20 mm dia 1.55 mm thick PVC conduit pipes of ISI standard Sudhakar / finolex or approved equivalent quality for concealed electrification inside walls and roof slab with necessary GI wire to draw electric wires at a later date including cost and conveyance of pipes, junction boxes ,incidental charges,all leads and lifts, required accessories,including masonry work and labour charges etc., complete for finished item of work as directed by the engineer in charge.	84.00	Rms	10,080.00
33	43.00	nos	Supplying and fixing switches of approved make including wiring with 2 runs of 22/0.3mm (1.5 Sqm) P.V.C. insulated F.R flexible copper cable (ISI MARK) in existing pipe with 6A/10A modular switch (Anchor, finolex, Legrand other approved make by engineer-in-charge), Ceiling rose including all labour charges, incidental charges, all leads and lifts, fixing of concealed metal box and modular cover frame etc., complete in all floors for light, bell, fan and exhaust fan points etc., in buildings for finished item of work including cost of metal box complete in all respects as directed by the Engineer-in-charge.	651.00	nos	27,993.00

34	10.00	nos	Supplying and fixing 3/2 Pin sockets including wiring with 2 runs of 36/0.3 mm (2.5 Sqm) P.V.C. insulated F.R flexible copper cable (Finolex, Legrand or other ISI MARK) in existing pipe with 6A Mini Modular switch control and 3/2 pin sockets fixing on modular switch board including all labour charges, incidental charges, all leads and lifts etc., complete in all floors for finished item of work as directed by the Engineer-in-charge.	657.00	nos	6,570.00
35	50.00	Rms	Supply and laying of 2 of 56/0.3mm (4 Sqmm) F.R P.V.C insulated flexible copper cable of ISI standard PHINOLEX or equalent approved quality in the existing concealed PVC pipes for mains including all labour charges, ,incidental charges,all leads and lifts etc., complete for finished item of work as directed by the Engineer-in-charge.	114.00	Rms	5,700.00
36	10.00	nos	Supply and fixing of 20A modular socket along with 20 A modular switch (Anchor, Legrand or other approved make by engineer-in-charge) with indicator including earth connections and all labour charges, incidental charges,all leads and lifts etc., fixing of concealed metal box and modular cover frame etc.complete for finished item of work as directed by the engineer in charge.	694.00	nos	6,940.00
37	30.00	nos	Supply, Transportion and fixing of 26 W LED tube light set of make / Wipro / Philips including all accessories, all incidental charges, all leads and lifts etc., complete for finished item of work as directed by the Engineer-in-charge.	568.00	nos	17,040.00
38	10.00	nos	Supply and fixing of batten holder/ slanting holder in lieu of ceiling rose of light point complete with all connectoins, 40 W Bulb and all labour charges of ISI standard PHILIPS make including fixing charges, incidental charges,all leads and lifts etc., complete for finished item of work as directed by the engineer in charge.	97.00	nos	970.00
39	15.00	nos	Supply and fixing of 1200 mm (48") sweep 230V, A.C 50 Hz.Celling fan with 3 Blades and double ball bearings with all standard accessories of ISI standard Crompton HS Plus / Havells ES Neo / Orient Energy Star/ Halonix (Zephyr)/ Polycab (Synergy Star) make with necessary down rods of stem type including cost and conveyance of all materials, cost of electronic fan regulator, labour charges, incidental charges, all leads and lifts etc., complete for finished item of work as directed by the engineer in charge.	2,897.00	nos	43,455.00
40	2.00	nos	Supply and fixing of 12" (300 mm), ISI, light duty exhaust fans with metallic blades of approved make Crompton, Almounard / Havells turbo force including cost and conveyance of material, labour charges, incidental charges, all leads and lifts etc., complete for finished item of work as directed by the Engineer in charge.	1,647.00	nos	3,294.00

41	1.00	nos	Providing earthing with No.8 gauge GI wire connected with 6mm dia bolts and nuts to 50mm dia GI pipe electrodes with a GI flange including cost and conveyance of all materials and construction of earth pit with brick masonry of size 1Mx1M (external) and 1.75M deep, incidental charges, all leads and lifts etc., complete for finished item of work as directed by the Engineer-in-charge.	4,643.00	nos	4,643.00
42	1.00	nos	Supply and erection of Panel mounting cubical type 60 / 63A TPN 415V, 50 HZ. 4 Nos of Switch disconnector fuse unit complete of make L&T/GE/C & S with front drive mechanism with door inter lock, padlocking arrangement, all leads and lifts etc., complete with HRC fuse links on control panel for finished item of work as directed by Engineer in Charge.	3,149.00	nos	3,149.00
43	1.00	nos	Supply and erection of approved ISI make Providing & Placing on Terrace (at all floor levels) polyethylene water storage tank of 2000 Liters Capacity with Double layer approved brand & manufacture with cover and suitable locking arrangement & making necessary holes for inlet & outlets and over flow pipes but without fittings & base support for tanks of 1000 lts capacity including cost and conveyance of all materials, all fixtures, all leads and lifts complete as per the directions of the Engineer in charge for the finished item of work as directed by the Engineer-in-charge.	13,634.00	nos	13,634.00
44	50.00	Sqm	Supplying and fixing of false ceiling using Plaster of paris Boards 12 mm thick with standard GI ceiling angles, sections perimeter channels including cost and conveyance of all materials and labour charges etc complete including cost and conveyance of all materials, all fixtures, all leads and lifts complete as per the directions of the Engineer in charge for the finished item of work as directed by the Engineer-in-charge.	460.00	Sqm	23,000.00
45	200.00	Sqm	Flooring with 30 mm thick Polished Cuddapah/Shabad stones, set over base coat of cement mortar (1 : 8) 12 mm thick over CC bed already laid including pointing with cement mortar 1:3 duly filling joints nearly, including cost of all materials like flooring stone, cement, sand, and water etc., complete, including seigniorage charges, labour charges for dressing of flooring stones etc., complete for finished item of work, but excluding the cost of conveyance of all materials as directed by the Engineer-in-charge.	582.00	Sqm	1,16,400.00

46	10.00	Sqm	Flooring in toilets with ceramic non skid tiles of first quality make as approved by Engineer-in-charge Non-skid red or white full body Ceramic floor tiles of size 400 x 400 mm and thickness between 7-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs set over a base coat of CM(1:8) 20 mm thick over CC bed already laid including neat cement slurry of honey like consistency spread at the rate of 3.3Kgs per Sqm and filling the joints with white cement paste (but excluding basic cost of cement) cost and conveyance of sand, water, ceramic tiles, white cement etc., to work site, seignorage charges, cost of base coat, all labour charges for mixing of cement mortar laying tiles to required slope, curing,, all incidental charges and operational charges,all leads and lifts etc., complete for finished item of work as directed by the Engineer-in-charge.	854.00	Sqm	8,540.00
47	25.00	Sqm	Dadoing to walls with first quality coloured glazed tiles of approved make and design as approved by Engineer in charge of glazed red or white full body ceramic wall tiles of size 300 x 450 mm / 320 mm x 400 mm and thickness 6 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs in bath rooms, toilets and kitchen set over a base coat of CM (1:5) 12 mm thick and neat grey cement slurry of honey like consistency spread at the rate of 3.3 Kg/Sqm and jointed with white cement paste mixed with pigments of matching shade to match the shade of tiles including conveyance charges of cement (but excluding basic cost of cement) including cost and conveyance of all materials and water to work site, seignorage charges, all labour charges for mixing of cement mortar, fixing in position, lift charges, curing, cutting the brick masonry and re-doing the same such that the top surface of the tiles is to be flushed with plastered surface, all incidental charges and operational charges all leads and lifts etc., complete for finished item of work as directed by the Engineer-in-charge.	865.00	Sqm	21,625.00
48	250.00	Cum	Construction of gravel road with well graded gravel of approved material obtained from borrow pits within a lead of 15KM transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2, Technical Specification Clause 303 MORD / 305 MORTH, by using machinery etc., complete for finished item of work. The rate including cost and conveyance of gravel, hire charges of machinery and all labour etc complete for finished item of work as directed by the Engineer-in-charge.	666.00	Cum	1,66,500.00
			Estimate Contract Value			29,50,753.00

Note: The rate shall be exclusive of GST which will be reimbursed as per applicable rates.

SCHEDULE – B**Issue Rate of material:**

Name of the Work: APSPCL – CSR - Construction of Community Hall, Bus Shelter and approach road at Thummalapalli Village of B.Kodur Mandal of Kadapa Dist. A.P.

Sl.No.	Description of Item	Rate	Source of Supply
1	NIL	NIL	NIL

SCHEDULE – C**LEAD STATEMENT**

Name of the Work: APSPCL – CSR - Construction of Community Hall, Bus Shelter and approach road at Thummalapalli Village of B.Kodur Mandal of Kadapa Dist. A.P.

Sl. No.	Description of item	Source
1	Cement	Porimamilla
2	All types of sand	Penna River, Siddavattam
3	All grades of HBG metal required for Concretes	Gopavaram
4	Steel	Porimamilla

Note: The above information given above is indicative only. The firm shall make his assessment regarding availability of above materials in adequate quantity and quality and the distance of the source etc., before quoting his rates and no claim will be entertained on this account afterwards.

SCHEDULE – D**LIST OF TENDER PURPOSE DRAWINGS ENCLOSED TO THIS SPECIFICATION**

Name of the Work: APSPCL – CSR - Construction of Community Hall, Bus Shelter and approach road at Thummalapalli Village of B.Kodur Mandal of Kadapa Dist. A.P.

Sl.No	TITLE
1	Plan Drawing of Community Centre

PARTICULARS OF TENDERER

Name of the Work: APSPCL – CSR - Construction of Community Hall, Bus Shelter and approach road at Thummalapalli Village of B.Kodur Mandal of Kadapa Dist. A.P.

Name of the Tenderer/ Contractor:

Name of the contact person responsible for the work:

Designation/ Status of the contact person:

Contact Details of the person responsible for the work:

Mobile Phone No.

Office Phone No.

Residence Phone No.

Any Other Phone No.

Present Address:

Permanent Address:

BANK GUARANTEE PROFORMA

**To,
The Managing Director,
APSPCL, Tadepalli.**

Dear Sir,

Guarantee No	:
Amount of Bank Guarantee	:
Guarantee Cover From	:
Last Date for Lodgment of Claim	:

WHEREAS _____ (hereinafter
called "the Contractor") has undertaken, in pursuance of
_____ for the work of
_____.

AND WHEREAS it has been stipulated by you in the said tender that Rs. _____ of
EMD amount shall be paid by the contractor for participating in the tender.

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on
behalf of the Contractor, up to a total of Rs. _____, such sum
being payable in the types and proportions of currencies in which the Contract Price is
payable, and we undertake to pay you, upon your first written demand and without cavil
or argument, any sum or sums within the limits of Rs. _____
(amount of Guarantee) as aforesaid without your needing to prove or to show grounds
or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor
before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the
tender or of the Works to be performed there under or of any of the Contract documents
which may be made between you and the contractor shall in any way release us from
any liability under this guarantee and we hereby waive notice of any such change,
addition or modification.

This Guarantee will remain in force up to and including the date _____ any
demand in respect of this guarantee should reach the Bank not later than the above
date.

Not with standing anything contained herein above:

1. Our liability under this Bank Guarantee shall not exceed Rs. _____.
2. This Bank Guarantee shall be valid up to _____.
3. We are liable to pay the Guarantee amount or any part thereof under this bank guarantee only and only if the beneficiary / Govt. serves upon the Bank a written claim or demand on or before _____ (date of expiry of Guarantee).

It is in the best interest of the beneficiaries to check up the genuiness of the Guarantee with the branch you may contact us and you may confirm the guarantees through fax.

DATE:

SIGNATURE OF THE BANK

SEAL

Witness 1 :
(Name & Address)

Witness 2 :
(Name & Address)

BANK ACCOUNT MANDATE FORM

ELECTRONIC CLEARING SERVICE (CREDIT CLEARING)/REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS

A. DETAILS OF ACCOUNT HOLDER:

NAME OF ACCOUNT HOLDER	
COMPLETE CONTACT ADDRESS	
TELEPHONE NUMBER/FAX/E.MAIL	

B. BANK ACCOUNT DETAILS :

NAME OF THE BANK	
BRACH NAME & ADDRESS	
WHETHER THE BRANCH IS COMPUTERISED?	
WHETHER THE BRANCH IS RTGS ENABLED ? IF YES, THEN WHAT IS THE BRANCH'S <u>IFSC CODE</u>	
IS THE BRANCH IS ALSO NEFT ENABLED ?	
TYPE OF ACCOUNT (SB/CURRENT/CASH CREDIT)	
COMPLETE BANK ACCOUNT NUMBER	

DATE OF EFFECT: _____

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the APSPCL responsible.

Signature of Contractor

Date:

Certified that the particulars furnished above are correct as per our records.

Signature of Banker

(Bank's Stamp)

Date:

INTEGRITY PACT

Between

Andhra Pradesh Solar Power Corporation Private Limited hereinafter referred to as "**APSPCL**",

And

..... herein after referred to as "**The Bidder / Contractor**"

The APSPCL intends to call tenders and award the work under laid down organizational procedures, contract/s for the work of "**APSPCL – CSR - Construction of Community Hall, Bus Shelter and approach road at Thummalapalli Village of B.Kodur Mandal of Kadapa Dist. A.P.**"

The APSPCL and the Bidders shall value the full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness / transparency in bidding and as well as execution of contracts and both the parties shall adhere to the following.

1. Commitments of the APSPCL

- a. No employee of the APSPCL, personally or through family members, will in connection with the tender or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- b. The APSPCL will, during the tender process treat all Bidder(s) with equity and reason. The APSPCL will in particular, before *and* during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

2. Commitments of the Bidder(s)/ contractor(s)

- a. The Bidder(s) / Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the APSPCL's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- b. The Bidder(s) / Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- c. The Bidder(s) / Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the APSPCL as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

3. If the Bidder(s)/Contractor(s), before award or during execution commits a transgression through a violation of clause 2, above or in any other form such as to put his reliability or credibility in question, the APSPCL is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process and exclusion in future tenders.
4. If the APSPCL disqualifies the Bidder(s) from the tender process prior to the award as per clause 3 above, the APSPCL is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
5. If the APSPCL terminates the contract or if the APSPCL is entitled to terminate the contract according clause 3 above, the APSPCL shall be entitled to demand and recover from the contractor liquidated damages of the Contract value or the amount equivalent to Performance Guarantee.
6. The Bidder(s)/ Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact.
7. The Integrity Pact begins from the date of tender notification and expires after the contractor receives the last payment under the contract.

(For & On behalf of the APSPCL)

(Office Seal)

(For & On behalf of Bidder/ Contractor)

(Office Seal)

Place -----

Date -----

Witness 1 :
(Name & Address)

Witness 2 :
(Name & Address)